

AD-A110 246

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WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC(U)  
OCT 81

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USAFETAC/DS-81/096

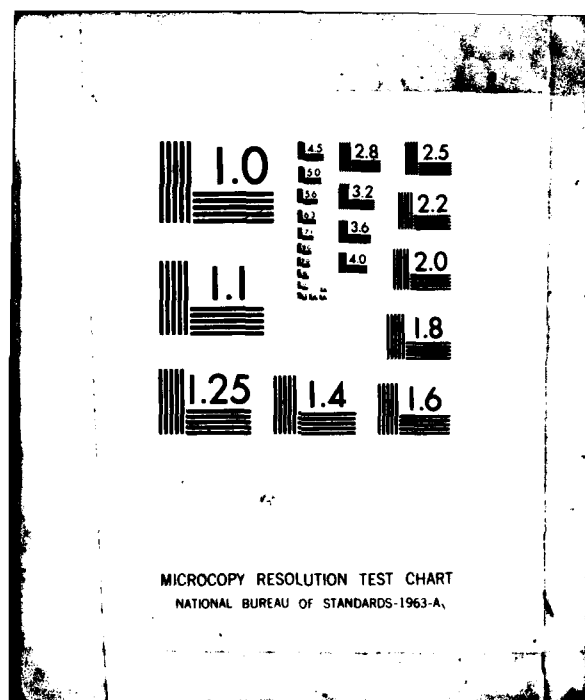
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DATA PROCESSING DIVISION  
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Air Weather Service ( MAC )

AMS TECHNICAL REPORT  
FL 4114  
SCOTT AFB, IL 62220

REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

WILLIAMS AFB AZ WBAN #23104  
N 33 18 W 111 40 FLD ELEV 1383 FT CHD WMO #

PARTS A-F  
POR FROM HOURLY OBS: JUN 69 - DEC 70, JAN 73 - MAY 81  
POR FROM DAILY OBS: MAR 42 - FEB 46, APR 46 - MAY 81  
TIME CONVERSION GMT TO LST: -7

12 6 OCT 1981

OCT 21 1981

FEDERAL BUILDING  
ASHEVILLE, N. C.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS- 81/096	2. GOVT ACCESSION NO. ADA110 246	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Williams AFB, Arizona		5. TYPE OF REPORT & PERIOD COVERED Final rept.															
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER															
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		8. CONTRACT OR GRANT NUMBER(s)															
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB IL 62225		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS															
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE 21 Oct 81															
		13. NUMBER OF PAGES p. 400															
		15. SECURITY CLASS. (of this report)  UNCLASSIFIED															
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE															
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.																	
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18. SUPPLEMENTARY NOTES																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperature</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperature	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative humidity	*Climatological data	(over)
*RUSSWO	Daily temperature	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <p>This report is a six-part statistical summary of surface weather observations for Williams AFB, Arizona</p> <p>It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)</p>																	

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19. Percentge frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

\* Arizona

\*

20. and dew-point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurrence tables.

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Williams AFB weather station had part time operations for a significant period of their history. Analyzing the "Station History" indicates that Williams AFB was part time through most of the hourly period of record. Generally the station was closed, for the most part, from 2300 LST to 0400 LST and therefore the hour groups which contain the hours listed will be affected and all users of this summary should be aware of the following:

a. Since the station had full time operations for a relatively short period of record (Feb 75-Aug 77), the hours 2300 LST to 0400 LST were omitted from the product since we believe that to include this data, the statistical results would have no significance due to low observation counts. Therefore the hour group 00-02 LST will not be included in the summary.

b. The hour group 03-05 LST contains only 0500 LST data.

c. The hour group 21-23 LST contains data for 2100 LST and 2200 LST only, therefore the statistics will be biased towards the hours 2100 LST and 2200 LST.

d. Means and Standard Deviations sections will be affected in the following:

1. Since the station was closed during overnight hours, temperature data will be biased towards the hours that the station was open. This is evident when comparing the RUSSWO produced 16 Jul 1975 with this product. The dry bulb temperature section in the old RUSSWO indicates a mean annual temperature of 71.0°F, while the new RUSSWO shows a dry bulb temperature of 73.1°F, an increase of 2.1°.

2. Station pressure and Sea Level Pressure are not available for the hours 0200 and 2300 LST. The pages that should be analyzed cautiously will be stamped:

"USE WITH CAUTION SEE FIRST PAGE"



## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Service and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

##### ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

##### SNOWFALL

##### SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

##### SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

##### EXTREME MAX & MIN TEMP

##### PSYCHROMETRIC-DRY VS WET BULB

##### MEAN & STD DEV (DRY BULB, WET BULB, & DEW POINT)

##### RELATIVE HUMIDITY

#### PART F STATION PRESSURE

##### SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_



STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV. (FT.)	CALL SIGN	WMO NUMBER
23104	WILLIAMS AFB ARIZONA	N33 18	W111 40	1383	CHD	

## STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE NSL		OBS PER DAY
			FROM	TO			FIELD (FT)	MT. BARO.	
1.	Williams Field, Chandler Arizona	AAF	Mar 42	Sep 44	N33 18	W111 40	1344	1351	24
2.	Same	Same	Oct 44	Apr 53	Same	Same	1338	Same	24
3.	Williams AFB Arizona	AFB	Apr 53	Apr 54	Same	Same	1360	Same	24
4.	Same	Same	Apr 54	Mar 59	Same	Same	1372	Same	24
5.	Same	Same	Mar 59	Dec 60	Same	Same	1385	Same	24
6.	Same	Same	Jan 61	Apr 63	Same	Same	Same	Same	14 to 17
7.	Same	Same	May 63	Sep 65	Same	Same	Same	Same	24
8.	Same	Same	Oct 65	Dec 70	Same	Same	Same	Same	12 to 18
9.	Same	Same	Jan 71	Jan 75	Same	Same	Same	Same	15 to 18
10.	Same	Same	Feb 75	Dec 79	Same	Same	Same	Same	17 to 24
11.	Same	Same	Jan 80	Aug 81	Same	Same	1383	Same	7 to 20

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Mar 42	Located on Operations Building	Ahemometer	ML-144	35 ft	
2.	Jul 45	Same	Selsyn	Same	25 ft	
3.	Sep 48	Not available	Same	Same	N/A	
4.	Apr 53	Located in Weather Station	Same	ML-144B	47.5ft	
5.	Apr 56	Located on top of Base Operations	Selsyn	ML-144B	65 ft	
6.	Apr 57	Located on top of Weather Station	Same	Same	40 ft	
7.	Apr 59	Same	Same	Same	35 ft	
8.	Jan 61	Located 750 ft NE from Rnwy NW-SE and 400 ft NW from Rnwy NE-SW	AN/GMO-11	RO-2	13 ft	
9.	Apr 62	Located on SE end of NW-SE Rnwy	Same	Same	9 ft	
10.	Apr 63	Located between the Rnwys at 1/2 way point	Same	Same	8 ft	
11.	Apr 64	Same	Same	Same	13 ft	



NUMBER OF ACTION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION			REMARKS, ADDITIONAL EQUIPMENT OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	
2.	Nov 66	Located 1/2 way between Rnwys 30L and 30R approx 1/2 way down length of Rnwys 100 yds to left of GCA	Same	Same	Same
3.	Jan 71	Located 2000 ft NE of ROS between Rnwys 12C & 12R	AN/GMQ-20	RO-362	Same
4.	Jan 72	Located 750 ft SW of centerline, 4000 ft from end of Rnwy 120	Same	Same	Same
5.	Dec 79	Same	Same	Same	Same
6.	Aug 81	Same	Same	Same	Same

00-0075



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse



Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.



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# WEATHER CONDITIONS

STATION WILLIAMS AFB AZ STATION NAME 70,73-81 YEARS JAN MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	0-23												
	3-15		4.1				4.1	2.0	.4			2.4	246
	16-18		4.5				4.5	3.2	.8			2.8	761
	19-11		4.0				4.0	3.0	1.2		.1	4.0	900
	12-14		5.2				5.2	1.0	1.2			2.0	900
	15-17		3.6				3.6	.5	1.2			1.6	822
	18-2	.6	4.3				4.3	1.5	1.1			2.3	653
	11-23		1.4				1.4						261
TOTALS		.1	3.9				3.9	1.6	.8		.0	2.3	4563



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# WEATHER CONDITIONS

4 STATION WILLIAMS AFB AZ 70, 78-81 YEARS FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-12												
	03-15		6.1				6.1	.4				.4	730
	16-18		3.1				3.1	1.0	.6			1.5	713
	19-1		4.1				4.5	1.2	.4		.4	2.0	820
	12-14		3.3				3.3	.4	.6		.4	1.3	122
	15-17		3.3				3.3	.4	.3		.4	1.1	758
	18-21		2.4				2.4	.2				.2	617
	22-23	.4	1.8				1.8						273
TOTALS		.1	3.4				3.4	.5	.3		.4	.5	4233



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## WEATHER CONDITIONS

STATION 4 ILLIAMS AFB AZ 70, 73-81 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1-3	10-32												
	13-25		3.9				3.9	.4			.6	1.2	556
	16-18	.1	4.4				4.4	.2			.5	.7	802
	19-21		3.4				3.4	.2	.1		.2	.5	930
	12-14	.2	4.4		.1	.2	4.4	.3			.1	.4	937
	15-17		3.3				3.3	.2			.1	.4	754
	18-20		4.8				4.8	.1	.4		.7	1.3	712
	1-23	.3	3.6				3.6						342
TOTALS		.1	4.3		.1	.0	4.3	.2	.1		.3	.6	4826



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## WEATHER CONDITIONS

4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70, 71-81

YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	0-02												
	03-05		.9				.8						250
	06-08		1.0				1.0						781
	09-11		1.1				1.1						900
	12-14		1.1				1.1				.1	.1	900
	15-17	.4	2.0				2.0				.5	.5	831
	18-20	.1	2.0				2.0	.1			.7	.8	706
	21-23		1.2				1.2						346
TOTALS		.1	1.3				1.3	.1			.2	.2	4714



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## WEATHER CONDITIONS

4 WILLIAMS AFB AZ 70,73-81 MAY  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	0-02												
	03-05		.4				.4						252
	06-08	.4	.6				.6						763
	09-11		.3				.3				.2	.2	907
	12-14	.1	.7				.7				.3	.3	907
	15-17	.7	.7				.7				.5	.5	834
	18-20	2.4	2.1				2.1				.1	.1	716
	21-23	.3	2.1				2.1						387
TOTALS		.6	1.0				1.0				.2	.2	4766



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## WEATHER CONDITIONS

4  
STATION

WILLIAMS AFB AZ

STATION NAME

69-70, 73-80

YEARS

JUN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02												
	03-05												254
	06-08												773
	09-11	.3	.1				.1				.1	.1	899
	12-14	.4	.4				.4						900
	15-17	.4	.2				.2				.2	.2	829
	18-20	1.4	1.0				1.0				1.0	1.0	698
	21-23		.2				.2						401
TOTALS		.4	.3				.3				.2	.2	4754



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## WEATHER CONDITIONS

STATION WILLIAMS AFB AZ STATION NAME 69-73, 73-80 YEARS JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02												
	03-05	.8	1.1				1.1						261
	06-08		.6				.6						784
	09-11		.4				.4						904
	12-14	.2	.3				.3						906
	15-17	1.4	.5				.5				.8	.8	541
	18-20	4.2	3.3				3.3				2.2	2.2	718
	21-23	2.2	2.0				2.0				.5	.5	405
TOTALS		1.3	1.2				1.2				.5	.5	4819



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## WEATHER CONDITIONS

4 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02												
	03-05	.4	.4				.4						266
	06-08	.8	.8				.8						798
	09-11	.1											929
	12-14	.1	.4				.4						930
	15-17	.7	.7				.7				.2	.2	260
	18-20	2.6	1.7				1.7				1.7	1.7	721
	21-23	1.6	2.9				2.9				.5	.5	378
TOTALS		.9	1.0				1.0				.3	.3	4982



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# WEATHER CONDITIONS

4 WILLIAMS AFB AZ 69-70, 73-80 SEP  
 STATION STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02												
	03-05		2.1				2.1						243
	06-08	.4	2.6				2.6	.7				.7	734
	09-11	.7	2.1				2.1	.7	.1			.8	874
	12-14	.3	1.0				1.3		.1			.1	876
	15-17	.9	1.0				1.0		.1		.9	1.0	799
	18-20	2.1	1.8				1.8				1.1	1.1	652
	21-23	.6	2.6				2.6				1.0	1.0	309
TOTALS		.7	1.9				1.9	.2	.1		.4	.7	4487



CLIMATE CLIMATOLOGY BRANCH  
TAC  
CATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## WEATHER CONDITIONS

4 WILLIAMS AFB AZ 69-75, 73-80 OCT  
STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02												
	03-05		1.2				1.2						252
	06-08	.3	1.6				1.6	1.0	.7			1.4	769
	09-11	.1	2.3				2.3	.7	.4			1.0	903
	12-14	.2	1.8				1.8	.2				.2	903
	15-17	.4	1.9				1.8				.2	.2	820
	18-20	.7	1.2				1.2				.1	.1	680
	21-23		.3				.3						312
TOTALS		.2	1.5				1.5	.3	.2		.0	.4	4639



AL CLIMATOLOGY BRANCH  
AFETAC  
EATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## WEATHER CONDITIONS

4 WILLIAMS AFB AZ 69-70, 73-80 NOV  
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-22												
	23-25		.8				.8	.3	1.2		.4	2.5	242
	26-28		2.1				2.1	1.4	1.5		.1	3.0	730
	29-31		1.5				1.8	1.1	2.2			3.3	657
	12-14		1.7				1.7	.5	2.6		.2	3.3	859
	15-17	.1	2.3				2.3	.3	2.3		.4	2.9	785
	18-20		1.5				1.5		1.9		.3	2.3	619
	21-23		.8				.8	1.2	2.4			3.6	247
TOTALS		.0	1.6				1.6	.8	2.0		.2	3.0	4339



CLIMATE CLIMATOLOGY BRANCH  
TAC  
DATA SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## WEATHER CONDITIONS

4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	0-22												
	3-25		1.8				1.8	1.4	.5			1.8	217
	6-28	.1	3.6				3.6	3.6	.7		.1	4.5	693
	9-11	.1	2.9				2.9	2.5	2.4		.2	4.9	851
	12-14		2.3				2.3	1.6	2.9			4.2	853
	15-17		2.4				2.4	.4	2.4			2.8	737
	18-20		1.4				1.4	.6	1.4			2.0	498
	21-23		.9				.9	.9	.5			1.4	221
TOTALS		.6	2.2				2.2	1.6	1.5		.6	3.1	470



USAF CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-72, 73-81  
YEARS

ALL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	MOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	3.9				3.9	1.6	.8		.0	2.3	4563
FEB		.1	3.4				3.4	.5	.3		.2	.9	4233
MAR		.1	4.2		.0	.0	4.0	.2	.1		.3	.6	4826
APR		.1	1.3				1.3	.0			.2	.2	4714
MAY		.6	1.0				1.0				.2	.2	4786
JUN		.4	.3				.3				.2	.2	4754
JUL		1.3	1.2				1.2				.5	.5	4819
AUG		.9	1.0				1.0				.3	.3	4882
SEP		.7	1.9				1.9	.2	.0		.4	.7	4467
OCT		.2	1.5				1.5	.3	.2		.0	.4	4639
NOV		.0	1.6				1.6	.8	2.0		.2	3.0	4339
DEC		.0	2.2				2.2	1.6	1.5		.0	3.1	4370
TOTALS		.4	1.9		.0	.0	1.9	.4	.4		.2	1.0	55112



## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $\frac{5}{8}$  mile.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

XXX **WEATHER CONDITIONS**  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
ATMOSPHERIC PHENOMENA

2 194 STATION WILLIAMS AFB AZ 46-81 YEARS ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	.6	16.9		.1	.2	15.5	5.1	2.4			6.8	1006
FEB		1.7	15.1			.7	13.7	2.0	.5		.1	2.6	918
MAR		2.0	15.1		.2	.3	13.7	1.6	.3		.1	2.0	1022
APR		2.0	10.6			.3	9.6	.6	.3		.2	1.0	989
MAY		3.1	7.2			.2	6.7		.1		.3	.4	1010
JUN		4.1	6.4			.2	6.1				.8	.8	961
JUL		16.9	24.0			.1	22.5	.2	.1		1.1	1.4	979
AUG		15.6	22.2				20.8	.6	.1		2.0	2.6	991
SEP		6.7	13.8			.3	12.9	.8	.4		1.4	2.6	944
OCT		3.7	12.4			.2	11.6	1.4	.9		.4	2.6	979
NOV		1.2	10.3				9.6	2.4	2.1			4.1	940
DEC		1.2	13.5		.1	.4	12.6	3.7	2.6			5.8	954
TOTALS		5.1	14.0		.0	.2	12.9	1.5	.8		.5	2.7	11691



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	"00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.



- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

27104

WILLIAMS AFB AZ

42-81

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	73.9	7.2	1.2	3.5	1.5	3.6	2.5	1.5	.1					13.9	1020	.77	3.01	.00
FEB	30.8	6.6	.7	2.9	2.4	3.0	2.0	1.3	.2					12.6	889	.65	3.16	TRACE
MAR	52.1	6.0	.9	1.6	2.4	3.1	2.3	1.2	.3					11.8	996	.85	2.76	.00
APR	87.8	5.0	1.6	1.4	1.3	1.2	1.2	.3	.1					7.2	992	.33	1.50	.00
MAY	92.3	4.7	.4	1.1	.4	.6	.5	.1						3.0	1079	.11	.72	.00
JUN	93.9	3.6	.6	.8	.1	.6	.4							2.4	1023	.08	.67	.00
JUL	71.6	15.5	1.5	3.8	2.4	2.6	1.5	1.0	.2					12.9	1051	.75	2.87	.03
AUG	72.2	11.8	1.7	4.9	1.8	3.2	2.4	1.1	.8	.1				16.1	1063	1.20	5.05	TRACE
SEP	83.9	6.8	.7	2.1	1.3	2.7	.7	1.2	.7					9.3	1013	.82	3.19	.00
OCT	84.4	6.4	.4	2.2	1.3	2.8	1.2	1.3	.1					9.2	1014	.49	3.78	.00
NOV	87.2	4.8	.7	1.9	.9	1.5	1.7	.9	.3					8.0	984	.47	3.26	.00
DEC	63.6	4.3	1.5	2.7	2.0	2.6	2.1	1.0	.3					12.1	1012	.63	4.34	.00
ANNUAL	83.2	6.9	1.0	2.4	1.5	2.3	1.5	.9	.3	.0				9.9	12136	7.15		

1210 WS FORM JUL 64 0-15-3 (OL1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

### PRECIPITATION

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ

42-81

STATION

STATION NAME

YEARS

### 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42			*TRACE	1.18	.00	.00	.43	1.18	.21	.18	.00	.14	
43	.44	.10	.43	TRACE	TRACE	TRACE	.16	.49	1.10	.13	.00	.54	1.10
44	.28	.56	.40	.39	.65	.00	.24	.16	.65	.14	.43	.55	.65
45	.51	.08	.45	TRACE	.00	.01	.10	.28	TRACE	.53	.00	.36	.53
46	.45*	.08		.02	.00	.00	.30	.31	1.74	.26	1.10	.53	
47	TRACE	.49	TRACE	TRACE	.16	.00	.02	1.78	.97	.22	.15	.20	1.78
48	.00	.70	.08	.00	.00	TRACE	.55	.35	TRACE	.14	.00	.45	.70
49	.42	.02	.26	.29	TRACE	.40	.26	1.07	.35	.08	.34	.65	1.07
50	.27	.46	.07	.00	.02	TRACE	.39	.66	.21	.00	TRACE	TRACE	.66
51	1.14	.11	.33	.50	.04	.00	1.40	2.64	.12	.10	.52	.21	2.64
52	.65	.33	.38	.60	TRACE	.18	.20	.07	.70	.00	1.39	.33	1.39
53	.22	.41	.37	.02	TRACE	TRACE	1.75	.07	.00	TRACE	.19	.16	1.75
54	.35	.53	1.03	.07	.17	.01	.60	.62	1.47	.03	TRACE	.03	1.47
55	.69	.39	TRACE	TRACE	TRACE	.24	.88	1.36	.01	.03	.04	.31	1.36
56	.73	.22	.30	.07	TRACE	TRACE	.38	TRACE	TRACE	.12	.00	.02	.73
57	.47	.25	.29	.14	.22	.34	.37	.43	TRACE	.95	.03	.31	.95
58	TRACE	.93	.40	.22	TRACE	.15	.12	.14	1.60	.15	.21	.00	1.60
59	.22	.65	TRACE	.09	TRACE	.02	.20	1.19	.18	.83	.17	1.17	1.19
60	.94	.36	.22	TRACE	TRACE	TRACE	.67	.40	.17	.36	TRACE	.07	.94
61	*.00												
62													
63					TRACE	.00	.05	.41	.12	.63	.62	.06	
64	.28	TRACE	.20	TRACE	TRACE	.00	.97	.30	1.22	.38	.65*	.43	1.22
65	.47	.91	.46	.53	.22	.21	.09	.88*	.12		*.22*	.34	
66	*.04*	.19*	.04			*.03*	.09*	.03*	.71*	TRACE*	TRACE*	.02	
67	*.16		*.57*	TRACE*	TRACE*		*.04*	.04*	.02*	.07*	.03*	.44	
68	*.14*	.34*	TRACE*	TRACE*	TRACE*		*.05*	.15		*.20*	.59*	.01	
69	*.59				*.48	.00*	.14	.30*	.38	.13*	.34*	.26	
70	*TRACE*	.22	1.03	.05*	.00	.13*	.14	.17*	1.76	.56*	.04*	.19	* 1.76
71	*.15*	.13	TRACE	.30*	TRACE	.00*	.19	1.34*	.88*	.52*	.03*	.14	1.34
MEAN													
S.D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OLA)



## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

42-81

STATION

STATION NAME

**YEARS**

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM JUL 64      0-88-5 (OL A)

FORM  
JUL 64



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

XXXXXXXXXXXXXXXXXXXX  
EXTREME VALUES  
XXXXXXXXXXXXXXXXXXXX  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

2104 WILLIAMS AFB AZ  
STATION STATION NAME

42-81

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

YEAR	MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42				*TRACE	1.29	.00	.00	1.11	1.94	.43	.31	.00	.23	
43		.71	.10	.51	TRACE	TRACE	TRACE	.16	1.08	2.06	.14	.00	1.03	5.79
44		.28	1.71	1.12	.51	.68	.00	.46	.30	.65	.26	.96	.60	7.53
45		.87	.19	1.03	TRACE	.00	.01	.19	.58	TRACE	.58	.00	.56	4.01
46		.88*	.12		.05	.00	.00	.48	1.15	3.19	.39	1.56	.59	
47		TRACE	.77	TRACE	TRACE	.16	.00	.03	4.11	1.00	.38	.33	.68	7.46
48		.00	1.36	.12	.00	.00	TRACE	.55	.65	TRACE	.14	.00	.66	3.48
49		1.18	.05	.34	.29	TRACE	.67	.33	1.07	.62	.14	.64	1.48	6.81
50		.60	.88	.13	.00	.02	TRACE	.51	.66	.71	.00	TRACE	TRACE	3.51
51		1.62	.13	.41	1.50	.04	.00	1.51	5.05	.12	.16	.63	.65	11.82
52		.90	.37	1.35	1.19	TRACE	.18	.44	.16	.70	.00	3.26	.60	9.15
53		.30	.53	.54	.03	TRACE	TRACE	2.20	.21	.00	TRACE	.19	.16	4.16
54		.77	.97	1.47	.07	.17	.02	1.09	1.70	2.12	.03	TRACE	.05	8.46
55		2.28	.10	TRACE	TRACE	TRACE	.27	2.87	2.95	.01	.05	.08	.32	8.93
56		1.08	.75	.70	.14	TRACE	TRACE	.51	TRACE	TRACE	.28	.00	.02	2.78
57		1.72	.36	.68	.15	.48	.34	.80	.58	TRACE	3.78	.04	.42	9.35
58		TRACE	1.16	1.37	.67	TRACE	.18	.17	.30	3.10	.19	.26	.70	7.40
59		.24	1.05	TRACE	.09	TRACE	.02	.37	2.73	.20	1.76	.24	4.34	11.04
60		1.67	.13	.22	TRACE	TRACE	TRACE	1.02	.92	.17	1.08	TRACE	.10	5.31
61		*.00												
62														
63						TRACE	.00	.05	1.32	.15	.76	1.46	.06	
64		.33	TRACE	.43	TRACE	TRACE	.00	1.55	1.32	1.64	.57	.80*	.73	* 7.37
65		1.04	1.11	.89	1.18	.22	.21	.16	.90*	.32		.35*	1.16	
66		*.08*	.36*	.04			*.04*	.09*	.03*	.75*	TRACE*	TRACE*	.03	
67		*.16		*.57*	TRACE*	TRACE*		*.04*	.04*	.02*	.07*	.03*	1.21	
68		*.14*	.45*	TRACE*	TRACE*	TRACE*		*.08*	.15		*.20*	1.00*	.01	
69		*1.49				*.53	.00*	.44	.76*	1.17	.23*	.75*	.59	
70		*TRACE*	.26	2.60	.06*	.00	.13*	.30	.19*	2.76	.61*	.04*	.31	* 7.26
71		*.15*	.24	TRACE	.30*	TRACE	.00*	.52	4.15*	2.06*	1.41*	.03*	.34	* 9.20
MEAN														
S.D.														
TOTAL OBS														

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)



## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

42-81

**YEARS**

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM JUL 64      0-88-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

23104

WILLIAMS AFB AZ

46-81

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														926	.0	.0	.0
FEB	100.0														798	.0	.0	.0
MAR	99.8	.1	.1											.1	868	TRACE	.2	.0
APR	100.0														870	.0	.0	.0
MAY	100.0														951	.0	.0	.0
JUN	100.0														900	.0	.0	.0
JUL	100.0														920	.0	.0	.0
AUG	100.0														930	.0	.0	.0
SEP	100.0														890	.0	.0	.0
OCT	100.0														886	.0	.0	.0
NOV	100.0														855	.0	.0	.0
DEC	100.0														885	.0	.0	.0
ANNUAL	100.0	.0	.0											.0	10679	.0		



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES SNOWFALL

(FROM DAILY OBSERVATIONS)

2104 WILLIAMS AFB AZ  
STATION STATION NAME

46-81  
YEARS

### 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	.0*	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	* .0												
62													
63					.0	.0	.0	.0	.0	.0	.0	.0	
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	* .0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0				
66													
67													
68												.0	
69	* .0				* .0	.0*	.0	.0*	.0	.0*	.0*	.0	
70	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0	.0*	.0*	.0	* .0
71	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
72	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
73	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
74	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0	.0*	.0	* .0
75	* .0	.0	.2	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.2
MEAN													
S. D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OL A)  
JUL 64



## EXTREME VALUES

### SNOWFALL

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

46-91

**YEARS**

## 24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM      0-88-5 (OL A)  
JUL 68



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

46-81  
YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46	.0*	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
47	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	* .0												
62													
63					.0	.0	.0	.0	.0	.0	.0	.0	
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	* .0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0				
66													
67													
68												.0	
69	* .0				* .0	.0*	.0	.0*	.0	.0*	.0*	.0	
70	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0	.0*	.0*	.0	* .0
71	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
72	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
73	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0*	.0*	.0	* .0
74	* .0*	.0	.0	.0*	.0	.0*	.0	.0*	.0*	.0	.0*	.0	* .0
75	* .0	.0	.2	.0	.0	.0	.0	.0	.0	.0*	.0	.0	* .2
MEAN													
S. D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)



XXXXXXXXXXXXXXXXXXXX  
**EXTREME VALUES**  
 XXXXXXXXXXXXXXXXXXXX  
 MONTHLY SNOWFALL

(FROM DATA & OBSERVATIONS)

214 WILLIAMS AFB AZ  
STATION STATION NAME

46-81 YEARS

[illegible]

USAF ETAC      FORM JUL 64      0-88-5 (OL A)



2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

2:104

WILLIAMS AFB AZ

42-81

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														1176			
FEB	100.0														1052			
MAR	100.0														1194			
APR	100.0														1179			
MAY	100.0														1217			
JUN	100.0														1159			
JUL	100.0														1184			
AUG	100.0														1202			
SEP	100.0														1145			
OCT	100.0														1188			
NOV	100.0														1135			
DEC	100.0														1149			
ANNUAL	100.0														13980			



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

42-81  
YEARS

### DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42			0	0	0	0	0	0	0	0	0	0	
43	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0*	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
61	* 0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	*
62	* 0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	*
63	* 0*	0*	0*	0*	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0*	0*	*
65	0	0	0	0	0	0	0	0	0	0	0*	0*	*
66	* 0*	0	0	0	0*	0	0*	0	0*	0	0*	0*	*
67	* 0*	0	0	0	0*	0	0*	0	0*	0	0*	0*	*
68	* 0*	0	0	0	0*	0	0*	0	0*	0	0*	0*	*
69	* 0*	0	0*	0*	0	0*	0	0*	0	0*	0*	0*	*
70	* 0*	0	0	0	0*	0	0*	0	0*	0	0*	0*	*
71	* 0*	0	0	0	0*	0	0*	0	0*	0*	0*	0*	*
MEAN													
S. D.													
TOTAL OBS													

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OLA)



## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

42-81

**YEARS**

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM 1 JUL 44      0-88-5 (OL A)



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \* 1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \* 2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ

46-81

STATION

STATION NAME

YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
46	ESE 32NW *36			SE 42W *29				ENE*64		SSW*19		NE 24	
47	NW 33WSW 31S	26SW 30ESE 42SE	30SSE 40N	42SW 36S	23S	24SSE 35							ESE 42
48	SW 24NNW 36W	29NNW 34SW 22E	41SSE 47ENE 49SSE 42ESE 32NNE 26NW *27										ENE 49
49	SW *34SW 19WSW 46ENE 31W	36NE 37E	35SE 35SSW 45SSW 31NW 23S	33									WSW 46
50	WSW*25ESE 23NNW*35NNW 20SSW 27SE	27ENE 35E	*36NNE*38SE *26NNE*31W	23									NNE*38
51	NNW*26ESE 26SW 31W	35W 28W	23SW 34E	35SE 17SW 26E	28S	31							W 35
52	W 40W 24SW 32SW	42NNW 28S	31SE 45NE 38SSE 37SSW 11S	27S	22								SE 45
53	NW 29W	32SW 28SSW 34NNW 29SW	30SSE 40E	42SSE 33SSE 36ESE 39NNW 51									NNW 51
54	ESE 30E	28SSW 40SSW 38S	44SE 37SSE 54SE	51SSE 45SE 31SSW 33W	33								SSE 54
55	ESE 31NNW 40W	36W	40SSW 33SE	29SE 54E	50SSE 34NE 29NNE 31NNW 35								SE 54
56	NNW 30NNW 32NNW 40SSE	39SSW 30S	29ESE 40ESE	40WSW 34SE 33NW 26ENE 26									NNW 40
57	SSE 25SE 38SE	38N	31SE 39SE	38SE 50S	34SE *23ESE 30ENE*29ESE 20								SE 50
58	NNW 26NW 35SSW 32SSE	37NNE 35NNW 27ESE 23SSE 50W	64E	25SSE 30NE 16									W 64
59	NNW 24SW	41ESE 30N	34NNE 33S	32NNW 51E	50ESE 20NE 33ESE 23SE 36								NNW 51
60	NW 20W	32SSW 24S	35WSW 27ENE 30E	43SSE 51W	37NNW 30WSW 32ENE 23								SSE 51
61	NE *18N	*27SW *29											
62													
63					ESE 25SW	33NE 35ENE 42N	44WSW 33SW	28SSW 25					
64	SSE 28N	31S	35SSE 34NNW 29E	44NE 39N	40SE 41S	33WSW 32WSW*31							E 44
65	NNW 32SW	38SSW 35SW *37SW	35SSW 43NNE 39S	33S	34SSW*27NNW*22SE *30								SSW 43
66	E *28SW 27W	34SW 40SSW 30SSW 27E	*29S	49NNW 43W	28S	30S *25							S 49
67	S *27NNE 30NW	29S	33S	33S	31SE *46E	48SE 31ENE 32SSW 38S	*40						E 48
68	NNE 32ESE 21NW 27SE	31SSW 29SSW 35	7/ 37	4/ 5720/ 3524/ 4024*	3128/ 30								4/ 57
69	30/ 3527/ 4221/ 4121/ 3419/ 3620/ 3421/ 37	9/ 3830/ 5415* 2719*	36 2* 12										30/ 54
70	1/ 31 8/ 4119/ 3929/ 3612/ 33	4/ 4626/ 58	6/ 7116/ 4710/ 46	9/ 2919/ 30									6/ 71
71	25/ 2529/ 4629/ 3822/ 33	3/ 4422/ 2515/ 4711/ 6114/ 6023/ 3811/ 2424*	28										11/ 61
72	30/ 2436/ 2225/ 2129/ 3136/ 2616/ 3134/ 37	6/ 4915/ 2917/ 2828/ 3320*	38										6/ 49
73	24/ 2820/ 2822/ 3228/ 3436/ 3236/ 30	9/ 3422/ 3327/ 2018/ 2527/ 20	9* 20										28/ 34
74	19/ 3732/ 3720/ 2329/ 2820/ 3320/ 2422/ 4713/ 2812/ 3715/ 2224/ 2034*	18											22/ 47
75	7/ 2628/ 3229/ 3333/ 3022/ 3722/ 2822/ 3811/ 3433/ 3412/ 3919/ 3727/ 25	12/ 39											
MEAN													
S.D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM JUL 64

0-88-5 (OLA)

(BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)



5 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2-104 STATION WILLIAMS AFB AZ STATION NAME 70-73-81 YEARS JAN  
CLASS ALL WEATHER MONTH 0300-0500  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7											1.3	2.3
NNE	.4	.9		.4	.4							2.1	9.2
NE	2.6	2.1	.4									5.1	3.6
ENE	3.0	3.4	.4									6.8	3.8
E	3.8	24.3	1.7									35.7	4.3
ESE	5.5	7.2	2.6									15.3	4.4
SE	2.6	3.0	.9									6.4	4.2
SSE	.9	2.1										3.0	3.9
S	.4	1.3	.4									2.1	4.6
SSW		.4										.4	4.0
SW	.3	.4										1.3	2.7
WSW			.4									.4	15.0
W	.4	.4										.9	4.0
WNW													
NW	.4											.4	3.0
NNW			.4									.4	7.0
VARBL													
CALM												18.3	
	28.1	45.5	7.2	.4	.4							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 235



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2-14 STATION WILLIAMS AFB A7 STATION NAME 70,73-81 YEARS JAN MONTH  
ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5											.5	2.3
NNE	.5	.7	.9									2.1	5.9
NE	1.6	1.7	.1									3.4	3.5
ENE	3.5	3.5	.4									7.5	3.6
E	1.2	18.8	2.9	.1								32.1	4.2
ESE	6.4	9.2	3.5									19.2	4.6
SE	3.2	3.8	.8	.1								7.9	4.1
SSE	1.3	.7	.1									2.6	3.2
S	1.1	.1										1.2	2.6
SSW		.9										.9	4.4
SW	.1	.5	.4									1.1	6.1
WSW	.4											.4	2.3
W	.3	.3	.1	.1								.9	5.3
WNW	.3	.5	.3	.1								1.2	5.8
NW		.1	.1									.3	6.5
NNW	.5		.1									.7	3.2
VARBL													
CALM												18.3	
	37.5	40.9	9.9	.5								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 761



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 104 STATION WILLIAMS AFB AZ 70.73-81 YEARS JAN MONTH  
0900-1100 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4	.2									1.1	4.7
NNE	.4	.2	.7	.6								1.9	7.6
NE	.9	.9	.3	.3								2.4	5.4
ENE	1.6	1.1	.6	.1								3.3	4.4
E	5.9	5.4	1.8	.4								13.6	4.3
ESE	4.6	7.2	3.4	.7	.1							16.0	5.3
SE	4.0	4.9	3.0									11.7	4.9
SSE	1.4	2.9	.6	.2								5.1	4.8
S	2.1	1.7	.1	.3	.1							4.3	4.6
SSW	1.8	.4	.6									2.8	3.6
SW	.8	.8	.3	.1								2.0	4.4
WSW	.3	.4	.3									1.1	4.8
W	1.2	1.2	.3	.1								2.9	4.3
WNW	.9	.6	.3									1.8	4.1
NW	.8	.3	.1	.2								1.4	4.5
NNW	.2	.2										.4	3.5
VARBL													
CALM												27.9	
	27.3	28.8	12.7	3.1	.2							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 104 STATION WILLIAMS AFB AZ 70-73-81 YEARS MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	.6	.2	.1							3.8	4.8
NNE	.4	1.0	.4	.2	.1							2.2	6.4
NE	.6	.3	1.1	.3								2.3	7.0
ENE	.4	.4	.4	.2								1.6	6.2
E	1.3	1.1	1.2	1.4		.1						5.2	7.7
ESE	.3	1.3	1.6	.7	.3							4.2	8.4
SE	1.2	2.2	1.3	.4								5.2	6.1
SSE	.0	1.2	1.2	.1								4.6	4.7
S	1.7	1.7	1.2	.3	.1							5.0	5.6
SSW	2.4	1.3	.2	.6								5.0	4.5
SW	1.6	.7	.3	.1								2.7	4.4
WSW	2.9	2.3	.9	.2	.1							6.4	4.6
W	3.6	5.0	2.0	.3								10.9	4.9
WNW	3.7	3.2	.6	.3								7.8	4.1
NW	2.7	1.9	.8	.4	.1							5.9	4.9
NNW	1.4	.9	.2									2.6	3.8
VARBL													
CALM												24.7	
	27.9	26.3	14.1	6.0	.9	.1						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 900



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 4 STATION WILLIAMS AFB AZ 70.73-81 YEARS JAN MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.3	1.3	.2								5.6	5.3
NNE	.2	.6	1.2									2.1	6.4
NE	.2	.5	.7									1.5	5.7
ENE	.4	.4	.6	.6								1.9	8.0
E	.7	.9	2.4	.5	.1							4.6	7.5
ESE	.1	1.0	1.6	.5	.1	.1						3.4	8.6
SE	.7	1.7	.6	.1		.1						2.6	6.4
SSE	.5	.7	.5	.1								1.8	5.6
S	1.5	1.5	.4									3.3	4.1
SSW	1.0	.6	.2	.5								2.3	5.9
SW	1.8	1.2	.6	.1	.1							3.9	5.5
WSW	2.6	2.8	1.2	.5								7.1	4.9
W	5.7	9.4	2.9	1.1								19.1	5.1
WNW	2.2	4.6	3.2	.7	.1							10.8	5.9
NW	2.8	3.2	1.2	.7								7.9	5.1
NNW	1.8	2.6	1.9	.4								6.7	5.4
VARBL													
CALM												15.5	
	24.0	33.1	20.7	6.1	.5	.2						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 822



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 214 WILLIAMS AFB AZ STATION NAME 7273-81 YEARS JAN  
CLASS ALL WEATHER MONTH 1800-2000  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.1	.2		.2							5.2	3.7
NNE	1.1	1.7	.2	.2								3.1	4.6
NE	2.6	2.5	.2									4.7	3.3
ENE	2.5	1.5	.3	.2								4.4	3.8
E	3.8	2.1	.8									6.7	3.8
ESE	1.4	1.4	.3	.2								3.2	4.5
SE	.9	.9	.8									2.6	4.9
SSE	.8	.5	.2									1.4	3.6
S	1.7	1.2				.2						3.1	4.4
SSW	1.1	.5	.3									1.8	3.6
SW	1.1	.9	.2									2.1	3.7
WSW	1.7	1.8	.6									4.1	4.2
W	5.5	3.5	.6	.2								9.8	3.7
WNW	2.5	2.9	1.1		.2							6.6	4.6
NW	2.8	1.8										4.6	3.2
NNW	1.8	2.5	.3									4.6	3.9
VARBL													
CALM												31.9	
	33.8	27.4	5.8	.6	.3	.2						100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 653



GLOBAL CLIMATOLOGY BRANCH  
AFETAL  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

USE WITH CAUTION  
SEE FIRST PAGE

2104 STATION WILLIAMS AFB AZ 70,73-81 YEARS JAN MONTH  
STATION NAME CLASS ALL WEATHER  
CONDITION 2100-2300 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		.4									1.1	4.0
NNE	1.9	.4	.7									2.8	4.1
NE	1.1	1.5										2.8	3.8
ENE	3.6	5.0	.4									8.9	3.9
E	9.3	14.2	.7	.4								24.6	3.8
ESE	6.8	9.3	1.4									17.4	4.1
SE	2.5	3.6	.7									6.8	4.3
SSE	2.1	1.4										3.6	2.9
S	.4	.4										.7	3.0
SSW	.4	1.1	.4									1.8	5.0
SW		.7	.4									1.1	5.7
WSW		.7										.7	5.0
W	.7	.4										1.1	2.3
WNW	.4	.4	.4									1.1	5.3
NW	1.1	.4										1.4	2.8
NNW	1.1		.4									1.4	3.6
VARB													
CALM												22.8	
	31.7	39.5	5.7	.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 281



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2004 STATION WILLIAMS AFB AZ 70.73-81 YEARS JAN MONTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.1	.4	.1	.0							2.9	4.5
NNE	.6	.8	.7	.2	.0							2.3	6.1
NE	1.2	1.1	.5	.1								2.9	4.6
ENE	1.8	1.7	.5	.2								4.1	4.4
E	4.9	7.0	1.8	.5	.0	.0						14.2	4.6
ESE	3.0	4.5	2.1	.4	.1	.0						10.1	5.3
SE	2.1	2.7	1.3	.1		.0						6.3	5.0
SSE	1.4	1.3	.5	.1								3.3	4.4
S	1.5	1.2	.4	.1	.0	.0						3.2	4.7
SSW	1.2	.0	.3	.2								2.5	4.4
SW	1.0	.5	.4	.1	.0							2.2	4.6
WSW	1.4	1.4	.6	.1	.0							3.5	4.7
W	2.2	3.5	1.1	.3								7.8	4.7
WNW	1.7	2.1	1.0	.2	.0							5.1	5.0
NW	1.7	1.3	.4	.3	.0							3.7	4.6
NNW	1.1	1.0	.5	.1								2.7	4.5
VARB													
CALM												23.2	
	28.6	32.4	12.2	3.1	.4	.1						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 4552



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2 114 STATION WILLIAMS AFB AZ STATION NAME 70.73-81 YEARS FEB MONTH  
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.5	.5									1.8	4.5
NNE			.9									.9	9.0
NE	.5	1.4	.5	.5								2.7	5.7
ENE	2.3	6.4	.9									9.5	4.4
E	2.1	24.1	3.2		.5							36.8	4.5
ESE	3.0	11.4	3.2									19.5	4.8
SE	4.1	2.3	1.4									7.7	3.9
SSE			.5									.5	9.0
S		.9	.9									1.8	6.3
SSW	.5	.5	.5	.5								1.8	8.3
SW			.5	.5								.9	9.5
WSW	.9											.9	2.5
W			.5	.5								.9	11.5
WNW													
NW	.5	.5										.9	4.0
NNW		.5										.5	5.0
VARB													
CALM												12.7	
	23.6	48.2	13.2	1.8	.5							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 220



2  
GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

214 STATION WILLIAMS AFB AZ STATION NAME 72.73-81 YEARS FEB MONTH  
ALL WEATHER CLASS 1600-2800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.6	.1									1.1	4.3
NNE	.1	1.3										1.4	4.6
NE	1.3	1.1	.1	.3								2.8	4.8
ENE	3.6	3.9	.3									7.9	3.6
E	6.6	19.4	3.1	.4		.1						31.6	4.6
ESE	6.7	13.9	3.4	.1								22.6	4.7
SE	7.9	3.6	1.3									8.8	4.0
SSE	1.1	1.2	.6	.1								2.8	4.4
S	.7	1.3										2.0	3.8
SSW	.3	.1	.4	.1								1.0	6.7
SW	.2	.4	.6	.3								1.5	7.2
WSW	.1	.4										.6	4.3
W	.3	.1		.4								.8	7.5
WNW	.1											.1	3.0
NW	.1	.7	.3									1.1	5.3
NNW		.1	.1									.3	6.0
VARB.													
CALM												13.6	
	27.1	47.1	10.2	1.8		.1						100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 713



CLIMATE CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 104 WILLIAMS AFB AZ STATION NAME 70.73-81 YEARS  
 CLASS ALL WEATHER MONTH 970-1100  
 CONDITION 970-1100 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.2	.2	.5								1.2	0.6
NNE	.4	.4	.5	.1								1.3	0.1
NE	.4	.3	.4									1.6	4.9
ENE	.3	.6	.1	.2								1.8	4.5
E	3.2	3.2	1.8	.9	.4	.1	.2					1.5	6.6
ESE	1.3	4.5	4.1	.5								12.4	5.6
SE	2.9	7.0	3.5	.7								14.1	5.6
SSE	3.2	2.3	1.1	.2								6.8	4.3
S	2.6	.4	.9	.2								4.0	4.5
SSW	.2	1.1	.5	.1								3.5	4.3
SW	1.0	1.1	.9	.4								3.3	6.0
WSW	1.3	.5	.4		.1							2.3	4.5
W	2.3	.9	1.0	.1								4.3	4.3
WNW	.7	.5	.4	.1								1.7	5.0
NW	1.0	.9	.4		.1							2.3	4.5
NNW	.4	.1	.4	.1								1.2	0.4
VARBL													
CALM												27.7	
	2.5	25.1	16.5	4.3	.6	.1	.2					100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2004 WILLIAMS AFB A2 STATION NAME 70.73-81 YEARS SEP  
MONTH 1200-1400  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	1.3	.2								3.6	5.9
NNE	.7	.7	.5	.2								2.2	5.0
NE	.7	.2	.2									1.2	4.3
ENE	.7	.7	.5									1.9	4.6
E	.5	1.3	1.2	.6	.5	.4						4.5	9.8
ESE	1.7	1.1	1.0	1.1	.4							4.5	6.2
SE	.5	1.2	1.6	.6	.1							4.1	7.7
SSE	.5	1.0	1.3	.2	.1							2.9	6.6
S	1.3	2.2	1.0	.5	.2	.2						6.5	6.1
SSW	1.7	1.5	.7	.4	.1							4.4	5.9
SW	1.7	1.7	.2	.6								4.3	5.2
WSW	2.9	2.6	1.2	.2	.2							7.2	5.2
W	4.3	4.6	1.8	.7	.2							11.7	5.1
WNW	1.9	4.2	1.1	.4	.4							7.7	5.6
NW	3.2	1.7	.4	.4								5.5	4.1
NNW	1.1	1.6	.7	.1								3.5	5.1
VARBL													
CALM												23.1	
	24.6	28.1	14.9	6.3	2.3	.6						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 821



CLIMATE CLIMATOLOGY BRANCH  
 AFETAC  
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2014 STATION NAME WILLIAMS AFB A2 YEARS 77-78-81 FEB MONTH  
 ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.3	.1	.1							5.2	5.6
NNE	.5	.7	.3									1.5	4.7
NE	.1	.7	.4	.1								1.3	6.4
ENE	.7	1.1	.9									2.6	5.4
E	.7	1.1	1.6	1.1	.7	.1						5.1	9.9
ESE	.5	.8	1.1	.1								2.5	6.5
SE	.1	.4	.9									1.3	6.8
SSE	.9	.5	.7									2.1	4.8
S	1.2	.9	1.1	.4	.1							3.7	6.3
SSW	.1	1.2	1.5	.5	.9	.4						5.5	9.7
SW	1.7	1.6	1.1	.5								4.5	5.8
WSW	.1	2.2	2.2	.9	.1							7.7	6.6
W	4.6	12.4	4.1	1.3	.4							20.8	5.7
WNW	1.1	7.4	2.6	1.2		.1						14.4	5.7
NW	1.7	2.8	1.6	.4								6.5	5.5
NNW	.7	2.4	.5	.3	.1							4.0	5.6
VARBL													
CALM												11.5	
	21.0	35.8	21.6	7.0	2.5	.7						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 758



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

244 STATION WILLIAMS AFB AZ 70.73-81 YEARS FEB MONTH  
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.3	.3	.2								4.4	3.8
NNE	1.7	.6	.2									1.8	3.3
NE	2.1	.8	.3									3.2	3.4
ENE	1.8	1.5	.3									3.6	3.9
E	1.6	2.3	1.1	.3	.3							5.7	6.1
ESE	.6	1.7	.2									1.8	4.1
SE	.9	1.3	.2		.2							2.4	5.1
SSE	.3	1.7	.5									1.8	5.0
S	.5	.6	.5	.3	.5							2.4	8.7
SSW	1.7	.3	.5	.5	.2	.2	.2					2.8	9.2
SW	.8	1.1	.2	.2								2.3	4.9
WSW	2.8	2.3	1.1	.2								6.3	4.6
W	7.9	8.6	.8	.8								18.2	4.1
WNW	3.9	3.6	.6	.6	.2							9.9	4.8
NW	2.4	1.5	.3	.2								4.4	3.9
NNW	2.1	1.6	.3	.2								4.2	4.2
VARBL													
CALM												25.9	
	32.3	29.3	7.5	3.4	1.3	.2	.2					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 617



USE WITH CAUTION  
SEE FIRST PAGE

FER  
MONTH

2100-2300  
HOURS (L.S.T.)

### CONDITION

[illegible]

273



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

204 WILLIAMS AFB AZ 70.73-81  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
FEB  
MONTH  
ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.0	.6	.2	.0							2.9	5.3
NNE	.5	.7	.4	.1								1.7	5.1
NE	.9	.8	.3	.1								2.1	4.5
ENE	1.7	1.9	.4	.0								4.1	4.1
E	4.0	6.6	1.7	.6	.4	.1	.0					13.5	5.5
ESE	3.2	4.5	2.0	.4	.1							9.9	5.1
SE	1.9	2.7	1.4	.3	.0							6.4	5.3
SSE	1.3	1.2	.8	.1	.0							3.4	5.0
S	1.4	1.1	.7	.3	.1	.0						3.6	5.8
SSW	1.1	.2	.7	.3	.2	.1	.0					3.2	7.3
SW	.9	1.1	.5	.4								3.0	5.8
WSW	1.7	1.4	.9	.2	.1							4.3	5.4
W	1.4	4.3	1.4	.6	.1							9.9	5.0
WNW	1.7	2.7	.9	.4	.1	.0						5.8	5.4
NW	1.5	1.4	.5	.2	.0							3.6	4.7
NNW	.8	1.1	.4	.1	.0							2.4	5.1
VARB													
CALM												20.2	
	26.8	33.3	13.7	4.3	1.3	.3	.1					100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 4222



GLOBAL CLIMATOLOGY BRANCH  
 AFATETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

USE WITH CAUTION  
 SEE FIRST PAGE

2 104 STATION WILLIAMS AFB AZ 70.73-81 YEARS MAP MONTH  
 CLASS ALL WEATHER 0300-0500  
 CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2	1.2			.4						3.2	8.3
NNE	.4		.4									.8	6.5
NE	.9	.8										1.6	3.5
ENE	2.9	2.4	.4									4.9	3.7
E	7.7	25.9	3.2									36.8	4.5
ESE	1.2	13.9	4.0									16.6	5.3
SE	1.6	4.9	2.4									10.9	4.8
SSE	1.2	1.6										2.8	3.7
S	.8	1.2	1.2									3.2	6.5
SSW		.9	1.6	.4								2.8	8.7
SW			1.2	.8								2.0	10.6
WSW	.8	.4	.4									1.6	4.3
W				.8								.8	11.5
WNW			.4									.4	8.0
NW	.4											.4	2.7
NNW		1.2										1.2	4.7
VARB													
CALM												9.7	
	19.8	51.4	16.6	2.0		.4						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 247



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 2004 STATION NAME WILLIAMS AFB AZ YEARS 70-73-81 MAP MONTH 0600-0800  
CLASS ALL WEATHER HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.5	.1									.7	5.2
NNE	.4	.4	.1	.2								1.1	6.2
NE	.9	.4	.2									1.5	3.8
ENE	2.7	1.4	.1									4.2	3.1
E	6.7	18.3	3.1	.2								28.4	4.5
ESE	5.4	15.2	4.6	.1								25.3	5.0
SE	3.1	7.1	2.9	.2								13.3	5.2
SSE	1.4	1.6	.6	.1								3.7	4.9
S	.9	.5	.9	.7								3.0	7.2
SSW	.2	.7	1.2	.2								2.5	7.3
SW		.9	.4	.2								1.5	7.1
WSW	.2	.7	.2	.1								1.4	5.5
W	.4	.1	.2	.2	.1							1.1	8.3
WNW	.5	.1										.6	3.0
NW	.1	.5	.5	.1								1.2	6.6
NNW	.7	.2	.2		.1							1.4	5.1
VARBL													
CALM												8.9	
	23.8	48.8	15.6	2.7	.2							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 602



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004 STATION WILLIAMS AFB AZ 70.73-81 YEARS  
ALL WEATHER CLASS  
0900-1100 MONTH HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.3	.3	.1								1.0	6.6
NNE	.8	.3	.5									1.6	5.2
NE	.6	.1	.2	.1								1.1	4.8
ENE	.3	.3	.5									1.6	4.4
E	2.5	2.4	.6	.6	.1	.1						6.3	5.6
ESE	3.7	5.6	3.4	1.1	.1							13.2	6.0
SE	3.4	7.8	4.7	.9								16.9	5.8
SSE	3.3	3.8	2.1	.6	.1	.1						10.0	5.4
S	1.6	2.2	1.5	.8	.6							6.7	7.2
SSW	1.6	1.4	1.7	1.0								5.7	6.7
SW	1.5	1.9	1.0	.9	.1							5.4	6.4
WSW	1.2	.8	1.3	.2								3.1	5.5
W	1.7	1.2	.3	.5	.5							4.3	6.6
WNW	1.2	.6	.4	.1	.2	.2						2.8	7.2
NW	.4	.5	.1	.1		.1						1.3	6.2
NNW	.6	.2	.1	.3								1.3	5.5
VARBL													
CALM												17.7	
	24.5	29.5	18.6	7.3	1.8	.5						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 1 4 STATION WILLIAMS AFB AZ 70.73-81 YEARS  
STATION NAME CLASS ALL WEATHER  
CONDITION  
HOURS (L.S.T.) 1200-1400

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	.2									2.9	3.6
NNE	.9	.2										1.1	3.1
NE	.9		.1									.9	3.3
ENE	.6	.9	.2	.1								1.8	4.6
E	1.0	1.1	1.0	.1								3.1	5.3
ESE	.3	.6	1.0	.8	.1							2.8	6.7
SE	1.0	1.2	1.8	.6	.1							4.5	7.1
SSE	2.7	1.9	1.2	.9	.2							6.2	6.1
S	1.4	2.7	2.2	1.2	.2	.1						8.0	7.2
SSW	2.4	2.3	1.6	1.2	.2							7.8	6.5
SW	1.5	3.0	2.9	1.5	.4							9.4	7.5
WSW	1.7	3.4	3.4	1.2	.1							9.9	6.9
W	4.1	6.3	3.5	.6	.5							15.2	5.9
WNW	1.9	2.8	1.5	.6	.4	.2						7.5	7.1
NW	1.0	1.2	1.1	.2	.3							3.8	7.0
NNW	.9	1.5	.2	.2	.1							2.9	5.1
VARB													
CALM												12.3	
	23.1	30.1	22.2	9.2	2.8	.3						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 93



GENERAL CLIMATOLOGY BRANCH  
METAC  
ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 174 STATION WILLIAMS AFB AZ 70.73-81 MAR MONTH  
STATION NAME YEARS  
ALL WEATHER CLASS  
CONDITION  
1500-1700 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.2	.2	.2	.1							3.4	4.8
NNE	.6	.4		.1	.1							1.2	5.5
NE	.2	.4	.1									.7	4.3
ENE	.2	.4	.1									.7	4.5
E	.6	1.3	1.1	.2								3.2	6.0
ESE	.1	.5	.7	.6								1.9	8.9
SE	.5	.5	.5									1.4	5.1
SSE	.5	.1	.6									1.2	5.9
S	1.3	1.2	1.8			.6						5.3	7.3
SSW	.2	1.8	1.3	.9	.5	.1						5.5	8.2
SW	1.3	1.2	2.5	1.3	.5	.1						7.5	8.3
WSW	1.4	4.2	3.5	2.1	.4							11.6	7.7
W	3.3	9.3	9.4	2.5	.5	.1						24.9	7.0
WNW	1.8	5.9	4.2	1.1	.6	.1						13.6	7.0
NW	1.9	2.7	1.8	.6	.1							7.0	5.8
NNW	1.2	.9	1.2	.2								3.5	5.6
VARB													
CALM												7.5	
	17.8	32.3	28.8	9.8	2.7	1.1						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 854



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 214 WILLIAMS AFB AZ STATION NAME 70.73-81 YEARS 1890-2000  
 CLASS ALL WEATHER  
 CONDITION 1890-2000  
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	1.8	.3	.1	.1							4.9	4.3
NNE	1.5	.6	.1									2.2	3.4
NE	1.3	1.3	.1	.1								2.8	3.9
ENE	2.7	1.1	.7	.1								3.9	4.5
E	1.5	2.7	.7	.4								4.8	5.6
ESE	1.4	.6	.7	.1								2.8	5.1
SE	.6	.4	.3									1.3	4.6
SSE	.3	.5	.3									1.1	4.6
S	.4	.7	.3	.6								2.0	7.1
SSW	.4	.3	.4	.7	.1	.1						2.1	10.1
SW	.5	2.4	1.1	.7	.1							5.2	6.7
WSW	1.8	3.7	2.5	.6	.1							8.7	6.1
W	4.1	3.4	4.1	.8	.3							17.7	5.7
WNW	3.8	3.4	1.5	.1	.1							9.0	4.7
NW	3.1	2.4	.7	.6								6.7	4.7
NNW	2.5	1.7	.6	.4								5.2	4.7
VARBL													
CALM												19.5	
	27.5	31.9	14.5	5.5	1.0	.1						100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 712



2  
 NATIONAL CLIMATOLOGY BRANCH  
 USAFETAC  
 ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
 USE WITH CAUTION  
 SEE FIRST PAGE

2004 STATION WILLIAMS AFB AZ 70.73-61 YEARS 4A- MONTH 2100-2300 HOURS (L.S.T.)  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.0										3.8	3.4
NNE	1.8	.9										2.6	3.0
NE	3.2	1.5	.6									5.3	3.3
ENE	5.3	1.5	.3									7.0	2.8
E	13.5	6.1	1.2									20.8	3.2
ESE	3.5	4.7	.6	.3								9.1	4.5
SE	3.8	3.2		.6								7.6	4.1
SSE	2.9	1.2	.6									4.7	3.5
S	.3	1.8	.3	.9								3.2	7.3
SSW	.2	.3	.6	.6								2.3	6.5
SW	.9	1.5	2.0	.3								4.7	6.1
WSW	.6	.9	1.8									3.2	6.2
W	1.2	1.2	1.2	.6								4.1	6.5
WNW	.3	.3	1.2									1.8	7.2
NW	.3	.3	.3									.9	5.3
NNW	.3	.9	.3									1.5	5.2
VARBL													
CALM												17.5	
	40.4	28.1	10.8	3.2								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 342



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

204 STATION WILLIAMS AFB AZ 70.73-81 YEARS  
STATION NAME CLASS ALL WEATHER  
CONDITION  
MAR MONTH  
ALL HOURS [L.S.T.]

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.7	.3	.1	.0	.0						2.6	4.6
NNE	.9	.4	.2	.1	.0							1.5	4.4
NE	.9	.5	.2	.7								1.6	3.8
ENE	1.5	.9	.3	.0								2.8	3.8
E	3.4	6.1	1.4	.3	.7	.0						11.2	4.6
ESE	2.1	4.8	2.1	.5	.7							9.5	5.6
SE	2.0	3.5	2.7	.4	.2							7.9	5.5
SSE	1.7	1.6	.9	.3	.1	.0						4.6	5.3
S	1.2	1.6	1.3	.6	.2	.1						4.9	7.2
SSW	1.1	1.2	1.3	.8	.1	.2						4.6	7.3
SW	1.7	1.9	1.6	.9	.2	.0						5.6	7.3
WSW	1.2	2.3	2.0	.7	.1							6.4	6.8
W	2.4	4.4	3.1	.9	.4	.0						11.3	6.4
WNW	1.6	2.2	1.5	.4	.2	.1						6.0	6.5
NW	1.1	1.3	.7	.3	.1	.0						3.5	5.8
NNW	1.7	.9	.4	.2	.0							2.6	5.1
VARB													
CALM												13.2	
	24.3	38.7	19.3	6.5	1.6	.4						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 4817



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2.74 STATION WILLIAMS AFB AZ 70.73-81 YEARS AP- MONTH 300-2500 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4	.8	.4								1.7	9.8
NNE	.4											.4	3.2
NE	.8	1.2										2.1	3.6
ENE	2.9	3.7	.4	.4								7.4	4.4
E	3.7	25.6	6.2									40.5	4.7
ESE	4.5	13.6	5.0									23.1	5.1
SE	2.9	2.5	.4									5.8	3.6
SSE	1.2	.4	.8	.4								2.9	5.7
S	.8	1.2	.8	.4								3.3	6.3
SSW	.8	.8	.4									2.1	4.6
SW	.4		2.5	.8								3.7	8.4
WSW			.4									.4	10.0
W			.4									.4	8.0
WNW	.4											.4	2.0
NW													
NNW		.4										.4	4.0
VARBL													
CALM												5.4	
	24.0	50.0	18.2	2.5								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 242



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 194 STATION WILLIAMS AFB AZ 72.73-81 APR MONTH  
STATION NAME YEARS  
ALL WEATHER CLASS  
CONDITION  
3600-0800 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4										.8	4.0
NNE	.1	.3	.1	.1								.6	7.0
NE	.5		.1									.6	3.2
ENE	1.9	1.4	.5	.3								4.1	4.4
E	6.7	14.5	3.5	.4	.1							25.1	4.9
ESE	4.9	15.7	9.9	.5								31.0	5.7
SE	2.7	9.1	4.5	.4								15.6	5.5
SSE	1.8	1.3	.9									4.0	4.1
S	.6	.9	.3	.6								2.4	6.9
SSW	.3	1.4	1.2	.6	.1							3.6	7.7
SW	.1	.3	1.2									1.5	7.8
WSW	.2		.6									.9	7.0
W	.4	.1	.4									.9	5.9
WNW	.1			.1								.3	8.0
NW	.1											.1	2.0
NNW			.4									.4	9.3
VARBL													
CALM												8.1	
	20.9	44.3	23.4	3.1	.3							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 781



2  
 OFFICIAL CLIMATOLOGY BRANCH  
 AFMELTAC  
 ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 70.73-81 YEARS APR MONTH  
 ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.1	.1								1.0	4.3
NNE	.1	.2	.1	.2								.7	7.7
NE	.2	.4	.2									1.0	5.2
ENE	.7	.1	.4	.2	.3							1.8	8.4
E	2.4	1.1	1.1	.7								5.3	5.5
ESE	1.6	3.7	2.4	.6								8.2	6.1
SE	2.2	4.4	6.3	.3								14.0	5.9
SSE	2.4	3.1	3.7	.8								10.0	6.0
S	2.7	2.3	1.3	.8	.2							7.3	6.0
SSW	1.7	1.4	1.1	1.0	.1							5.3	6.6
SW	1.7	1.4	1.2	1.1	.1							5.6	6.7
WSW	1.6	1.8	1.3	.7								5.3	6.1
W	2.6	2.1	1.1	.3								6.1	4.9
WNW	1.3	2.6	.3									4.2	4.2
NW	2.2	.7	.1									3.0	3.0
NNW	1.7	.6	.2									1.8	4.1
VARBL													
CALM												19.3	
	25.9	26.0	21.2	6.8	.8							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

214 STATION WILLIAMS AFB AZ 70.73-81 YEARS APR MONTH  
1200-1400 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.0	.2									1.7	4.8
NNE	.3	.4	.3									1.1	5.0
NE	.4	.7										1.1	3.9
ENE	.3	.4	.3	.2								1.3	6.8
E	.7	.7	1.4	.6								3.3	7.2
ESE	.2	.4	1.0	.6								2.2	8.7
SE	.3	1.4	1.1	.2								3.1	6.6
SSE	.3	2.0	1.3	.1								4.2	5.8
S	1.8	2.9	3.1	1.3								9.1	6.9
SSW	1.1	1.4	2.0	1.2		.3						6.1	8.6
SW	1.7	2.3	3.2	1.9								9.1	7.7
WSW	1.8	4.9	4.6	1.8	.4							13.4	7.4
W	2.7	7.1	8.3	1.2	.3							19.7	6.9
WNW	1.7	3.7	2.7	.8	.2	.2						8.6	7.3
NW	.9	2.6	1.3	.1	.1							5.0	5.8
NNW	.9	1.0	.4									2.3	4.0
VARBL													
CALM												8.6	
	15.3	33.0	31.4	10.0	1.1	.6						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 900



2  
FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 4 STATION WILLIAMS AFB AZ 70.73-81 YEARS APR MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.2	.5	.1								1.8	5.2
NNE		.6	.4									1.0	5.8
NE	.1	.2	.1									.5	5.8
ENE	.4	.2	.1	.4								1.1	6.9
E	.1	.5	.4	.1								1.1	7.0
ESE	.2	.5	.5	.2	.1							1.6	7.8
SE	.2	.4	.5	.2	.2							1.6	9.2
SSE	.6	.8	.1	.1	.1							1.8	6.1
S	.7	.7	1.2	.6	.1	.1						3.5	7.8
SSW	.5	1.7	1.7	1.4	.2	.2						5.1	10.3
SW	.5	2.2	2.4	2.8	.6	.1						8.5	9.6
WSW	1.3	4.2	7.0	3.1	.5							16.1	6.4
W	1.3	6.6	11.9	5.1	.5	.2	.2					25.9	8.8
WNW	1.5	4.9	6.9	.8	.1							14.3	6.8
NW	1.1	4.1	2.4	.5		.6						8.7	7.6
NNW	.5	1.7	1.4	.2	.1							4.0	6.7
VARBL													
CALM												3.6	
	9.5	29.5	37.4	15.8	2.6	1.3	.2					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 831



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 70.73-81 YEARS APR MONTH  
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	1.3	.1	.3	.1	.1						5.8	4.4
NNE	.4	.3		.3								1.0	6.2
NE	1.0	.3		.1								1.4	3.6
ENE	.7	.6	.1									1.4	3.3
E	.4	1.3	.1									1.8	4.2
ESE	.3	.4	.3		.1							1.1	6.9
SE		.6	.1	.1								.8	6.2
SSE	.7	.4		.4	.3							1.8	7.9
S	.6	.7	.3	.3								1.8	6.0
SSW	.7	1.7	1.3	1.0	.4							4.4	8.8
SW	1.3	1.6	2.3	.7								5.8	6.7
WSW	2.5	2.8	3.1	1.1	.1	.1						9.9	6.6
W	3.8	9.5	6.2	1.3	.4	.3						20.5	6.6
WNW	2.4	5.4	3.1	1.4	.3	.1						12.7	6.7
NW	2.3	5.2	2.5	.6	.3	.1						11.0	6.1
NNW	4.7	4.7	.6	.1								8.6	3.7
VARB													
CALM												9.8	
	24.9	34.3	20.3	7.8	2.1	.8						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 706



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2004 STATION WILLIAMS AFB AZ 70.73-81 APP  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
2100-2300  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5	.9		.6								4.9	3.7
NNE	1.2	.3	.3									1.7	3.2
NE	3.5	2.6		.6								6.6	4.3
ENE	3.2	1.4										4.6	2.8
E	6.1	5.5										11.6	3.4
ESE	2.6	2.3			.3							5.2	4.2
SE	2.9	2.6										5.5	3.2
SSE	.6	.9	.3									1.7	4.2
S	1.4	1.4	.9	.9	.3							4.9	7.6
SSW	1.2	1.7	1.4	.6								4.9	6.4
SW	.3	3.8	1.4	.3								5.8	5.4
WSW	.3	2.3	.6									3.2	5.4
W	1.2	2.3	1.7	.6								5.8	6.0
WNW	2.7	1.7		.3								4.0	4.1
NW	1.2	.9	.3									2.3	4.0
NNW	1.7	.6	.6									2.9	3.7
VARB.													
CALM												24.3	
	32.7	31.2	7.5	3.8	.6							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 346



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

2114 STATION WILLIAMS AFB AZ 70,73-81 YEARS APR MONTH  
CLASS ALL WEATHER ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 56	≥ 56	%	MEAN WIND SPEED
N	1.2	.7	.2	.1	.7	.0						2.3	4.6
NNE	.3	.3	.2	.1								.9	5.6
NE	.7	.6	.1	.1								1.4	4.2
ENE	1.1	.8	.3	.2	.1							2.4	5.1
E	2.7	4.7	1.5	.3	.0							9.2	4.9
ESE	1.7	4.4	2.7	.3	.1							9.2	5.8
SE	1.5	2.9	2.3	.2	.0							7.0	5.7
SSE	1.2	1.5	1.2	.3	.1							4.2	5.7
S	1.3	1.6	1.3	.7	.1	.0						5.0	6.7
SSW	.9	1.3	1.4	1.0	.1	.1						4.8	8.1
SW	1.0	1.7	2.0	1.2	.1	.0						6.1	7.7
WSW	1.3	2.6	3.0	1.2	.2	.0						8.3	7.4
W	2.0	4.4	5.1	1.4	.2	.1	.0					13.2	7.3
WNW	1.3	3.7	2.3	.6	.1	.1						7.2	6.5
NW	1.2	2.2	1.1	.2	.1	.1						4.9	6.0
NNW	1.2	1.3	.6	.1	.0							3.1	4.6
VARB													
CALM												10.8	
	20.4	33.9	25.1	8.1	1.2	.5	.0					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 4706



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2004 STATION WILLIAMS AFB AZ 70.73-81 YEARS MAY MONTH  
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4											.4	2.0
NNE	.4	.4	.4									1.2	5.7
NE	.4											.4	2.0
ENE	3.3	4.1										7.5	3.6
E	9.1	27.7	6.6									42.7	4.8
ESE	4.6	12.1	7.1									23.7	5.4
SE	2.5	2.5	3.3									8.3	5.0
SSE	.3	.4	.8									1.5	4.6
S	.4	.3	.4									1.7	5.5
SSW		.4										.4	4.0
SW	.4	.4	.4	.4								1.7	6.8
WSW		.4										.4	6.0
W		.4										.4	6.0
WNW													
NW													
NNW													
VARBL													
CALM												9.1	
	22.4	49.7	19.1	.4								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 241



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2004 STATION WILLIAMS AFB AZ STATION NAME 70.73-81 YEARS MAY MONTH  
CLASS ALL WEATHER 3600-0800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.1	.3									.5	6.8
NNE	.1	.3	.1	.1								.6	6.0
NE	.5	.3	.3									1.0	4.4
ENE	1.3	1.9	.1									3.3	3.9
E	5.1	14.4	5.6	.3								25.4	5.2
ESE	5.1	14.6	14.9	1.0								35.6	6.2
SE	1.4	7.3	6.1	.4								15.2	6.3
SSE	1.5	1.1	.8	.1								3.4	4.7
S	1.0	.5	.6		.1							2.3	5.3
SSW	.4	.4	1.0	.6								2.4	8.0
SW	.9	.3	.6	.1								1.9	5.1
WSW	.1		.4									.5	6.5
W	.1	.1	.1									.4	6.0
WNW	.1											.1	2.0
NW		.1										.1	6.0
NNW	.1	.1		.1								.4	7.3
VARB													
CALM												6.6	
	18.0	41.4	31.0	2.8	.1							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 783



2  
FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 1974 WILLIAMS AFB AZ 70.73-81 MAY  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
0900-1100  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.3	.3	.2								2.0	4.8
NNE	.3	.2	.4	.2								1.2	7.6
NE	.2	.1	.3	.2								.9	8.0
ENE	1.2	.3		.1								1.7	2.9
E	.9	1.0	1.1	2.0								5.0	9.0
ESE	1.8	2.9	2.3	.1		.1						7.2	5.8
SE	.2	4.5	3.7	.8								11.2	6.0
SSE	2.0	5.0	3.1	.9	.2							11.1	6.2
S	3.0	3.6	2.1	.7	.1							9.5	5.5
SSW	2.4	2.6	1.8	.7								7.5	5.5
SW	1.4	2.3	1.7	.6	.2							6.2	6.5
WSW	2.8	2.5	2.0	.6	.1							7.9	5.4
W	2.5	3.1	1.7	.1								6.8	4.8
WNW	1.2	.9	.6									2.6	4.3
NW	.8	.3	.2									1.3	3.6
NNW	.6	.3		.1								1.0	4.7
VARB													
CALM												16.9	
	23.8	30.1	21.3	7.2	.7	.1						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 907



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 4 STATION WILLIAMS AFB AZ 70.73-81 YEARS MAY MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	.3									1.4	5.0
NNE	.3			.1								.4	5.0
NE	.2	.3	.1	.1								.8	5.1
ENE		.6	.7	.3								1.5	7.8
E	.7	1.2	.8	.2								2.9	5.8
ESE	.3	.9	.7	.2	.1							2.1	7.7
SE	.9	.9	1.1	.1								3.0	6.0
SSE	.9	1.8	1.4	.8								4.7	7.1
S	2.2	2.1	2.8	1.2	.2	.1						8.6	7.1
SSW	1.5	2.3	2.4	1.8	.4	.3						8.8	8.6
SW	1.5	3.5	3.0	1.3	.1							9.5	7.0
WSW	1.8	6.4	5.6	1.5	.2							15.5	6.9
W	2.2	8.6	8.7	1.5	.1							21.2	6.8
WNW	1.1	4.9	2.4	.4								8.8	6.0
NW	.6	2.1	1.4	.3	.1							4.5	6.5
NNW	1.2	.4	.4	.1								2.2	4.5
VARB													
CALM												4.0	
	15.8	36.5	31.9	10.1	1.3	.4						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 907



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

214  
STATION

WILLIAMS AFB AZ  
STATION NAME

70.73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.3	.7	.2	.1							2.0	7.9
NNE	.1	.2	.4	.2								1.0	8.0
NE			.2		.1							.4	11.7
ENE		.2	.4									.6	7.0
E	.4	.1	.2	.2								1.0	7.1
ESE	.4	.1	.2	.2								1.0	6.9
SE		.2	.1	.4								.7	9.7
SSE	.5	.5	.4			.1						1.4	6.8
S	.7	.8	1.0	.6								3.1	7.1
SSW	.5	1.7	1.7	1.6	.1	.1						5.6	8.9
SW	.7	1.9	2.4	2.0	.6	.1						7.8	9.4
WSW	.6	3.2	6.0	4.9	.2							15.0	9.3
W	1.9	8.6	14.7	4.3	.2							29.9	8.0
WNW	.5	4.9	7.7	1.2	.2	.1						14.6	7.8
NW	.8	4.2	3.0	.5								8.5	6.4
NNW	.6	2.2	1.8	.4	.2							5.2	6.8
VARBL													
CALM												2.3	
	7.8	29.9	40.9	16.8	1.9	.5						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 834



CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004 STATION WILLIAMS AFB AZ 77.73-81 YEARS MAY MONTH  
1800-2000 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	2.1	.4	.1	.3							6.8	4.5
NNE	.3	.7	.4	.3								1.7	5.9
NE	.1	.6	.6	.4								1.7	8.2
ENE		.4	.3	.1	.3							1.1	10.0
E	.1	.3	.3	.6								1.3	9.6
ESE		.1	.1	.1		.1						.6	14.0
SE	.1	.3										.4	3.7
SSE	.1	.1		.3	.1							.7	10.6
S	.7	.6	.4	.1								1.8	5.5
SSW	.3	.6	1.3	1.5	.4							4.1	10.8
SW	.6	2.1	1.5	2.2	.1							6.6	8.7
WSW	1.3	3.9	3.9	2.2								11.3	7.4
W	2.2	8.7	5.4	1.0								17.3	6.1
WNW	2.8	5.0	3.4	1.5	.1							12.8	6.2
NW	1.4	6.2	4.3	1.0								12.7	6.4
NNW	3.1	6.6	2.4	.6								12.6	5.1
VARBL													
CALM												6.6	
	16.2	38.8	24.7	12.2	1.4	.1						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 716



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2104 STATION WILLIAMS AFB AZ 77.73-81 YEARS MAY MONTH 2100-2300 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.7	1.1		.3								7.2	2.9
NNE	2.3	1.3	.8	.5								4.9	4.8
NE	1.8	.3		.5								2.6	4.4
ENE	1.5	.5	.3									2.3	3.4
E	3.9	2.3	.3									6.5	3.3
ESE	2.3	.3	.5									3.6	3.7
SE	3.4	1.3	.5									5.2	3.0
SSE	1.8	.3	.3	.3								2.6	3.8
S	1.3	.3		.5								3.6	5.1
SSW	.9	2.3	2.6	1.8								5.0	7.5
SW	1.3	2.1	2.6	.3								5.7	5.9
WSW	1.8	1.8	1.6									5.2	5.3
W	1.8	.3	.8	.3								3.6	4.9
WNW	1.3	3.6	1.6									7.0	5.3
NW	2.3	.5	.5									3.9	3.7
NNW	3.6	2.1										5.7	3.1
VARBL													
CALM												22.7	
	33.5	22.2	12.1	4.4								100.2	3.5

TOTAL NUMBER OF OBSERVATIONS 287



CLIMATOLOGY BRANCH  
 WAFETAC  
 ALL WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 204 STATION NAME WILLIAMS AFB AZ YEARS 70.73-81 MONTH MAY

CLASS ALL WEATHER

CONDITION \_\_\_\_\_

HOURS (L.S.T.) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	.4	.1	.1							2.7	4.2
NNE	.4	.4	.3	.2								1.3	6.3
NE	.4	.2	.3	.2	.7							1.0	6.4
ENE	.7	.6	.3	.1	.2							2.0	4.9
E		4.4	1.7	.6								8.7	5.6
ESE	1.7	3.8	3.5	.3	.7	.2						4.3	6.1
SE	1.2	2.5	2.2	.3								6.2	5.9
SSE	1.1	1.2	1.1	.4	.1	.2						4.3	6.1
S	1.5	1.5	1.3	.5	.1	.5						4.9	6.2
SSW	1.0	1.6	1.7	1.2	.2	.1						5.8	7.9
SW	1.1	2.8	1.9	1.1	.2							5.3	7.5
WSW	1.3	3.2	3.3	1.6	.1							9.3	7.7
W	1.6	5.1	5.4	1.2	.1							13.5	6.9
WNW	1.1	3.4	2.5	.5	.1	.2						7.2	6.5
NW	.8	2.2	1.5	.3	.7							4.8	6.1
NNW	1.2	1.7	.8	.2	.0							3.9	5.2
VARBL													
CALM												8.7	
	13.5	34.7	28.0	8.9	.9	.2						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 4775



JOINT CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

STATION 4 WILLIAMS AFB AZ STATION NAME 65-70.73-80 YEARS JUN MONTH  
CLASS ALL WEATHER HOURS (L.S.T.) 1300-0500  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4			.4								.8	6.5
NNE	.4		.4									1.3	4.3
NE	1.7		.4									2.9	3.6
ENE	1.7	3.4	.4									2.2	4.6
E	5.1	22.3	7.1									45.8	5.1
ESE	2.5	1.4	8.7	.4								27.8	5.6
SE		2.4	2.7									2.2	5.7
SSE	1.7	1.7										2.5	3.2
S	.4		.4									.8	2.2
SSW													
SW													
WSW													
W	.4											.4	2.2
WNW													
NW	.4											.4	2.2
NNW													
VARBL													
CALM												5.0	
	15.1	60.5	18.5	.8								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 236



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION WILLIAMS AFB AZ STATION NAME WILLIAMS AFB AZ YEARS 69-70, 73-80 MONTH JUN  
CLASS ALL WEATHER HOURS (L.S.T.) 0600-1800  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.3	.3	.1								1.2	4.9
NNE	.1											.1	3.5
NE	.1	.3	.3									.8	4.7
ENE	.2	2.1	.1									3.4	4.1
E	.1	15.5	5.5	.8	.1							20.2	5.7
ESE	.1	15.5	19.2	1.0								33.3	6.7
SE	.7	5.5	7.8	1.3								14.6	6.9
SSE	.1	1.3	1.3	.1								3.9	5.4
S	.1	.1	.1	.1								1.6	3.8
SSW	.1	.1	.1	.3								.8	6.6
SW		.1	.1									.4	6.3
WSW		.1										.1	2.2
W	.1		.3									.6	2.8
WNW													
NW	.1	.3										.4	4.5
NNW	.1											.1	1.0
VARBL													
CALM												5.8	
	12.4	41.7	36.1	3.8	.1							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 773



2  
FEDERAL CLIMATOLOGY BRANCH  
WLTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

4 STATION WILLIAMS AFB AZ 60-70.73-80 YEARS JUN MONTH  
ALL WEATHERED CLASS 1900-1100 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2											.1	2.0
NNE	.2	.1	.2	.1								.7	2.3
NE	.6	.3										.9	3.0
ENE	.1	.2										.3	3.7
E	.7	1.4	.7	.8	.1							3.7	7.3
ESE	1.4	3.1	2.4	.9	.1							7.9	6.6
SE	2.7	4.3	5.5	.8								13.2	6.1
SSE	2.7	4.2	2.4	1.2								10.6	6.0
S	1.2	4.1	2.3	1.1	.6							11.2	6.3
SSW	1.2	2.6	.8	.7								5.1	5.5
SW	1.7	2.9	.9		.1							5.6	4.8
WSW	1.2	3.1	.7	.3								6.3	4.7
W	2.4	5.5	1.0									8.9	4.5
WNW	1.8	2.3	.2									4.0	3.8
NW	1.1	1.1	.3									2.4	4.1
NNW	.7	.6										1.2	3.4
VARBL													
CALM												17.0	
	22.4	35.4	17.5	5.9	.9							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 899



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004 WILLIAMS AFB AZ 69-70.73-80 JUL  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
1200-1400  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	.3	.3	.2								1.1	7.5
NNE	.1	.4	.2									.8	6.1
NE	.2	.1		.1								.6	4.4
NNE	.2	.4	.6									1.2	6.6
E	.1	.7	.1		.1							1.7	4.8
ESE			1.2	.6								2.3	9.3
SE	.1	.6	1.1	.6								2.3	5.7
SSE	.3	.4	1.6	.3								3.1	7.3
S		1.3	2.4	.9	.2							5.1	8.4
SSW	.8	2.2	1.7	1.1	.7							6.4	8.5
SW	.8	2.7	3.2	.8	.3							7.8	7.3
WSW	1.9	7.4	5.8	1.0	.1							16.2	6.5
W	1.7	11.3	12.3	1.6								26.9	6.8
WNW	.7	7.1	5.0	.6								13.2	6.5
NW	.4	2.6	1.3	.3								4.7	6.2
NNW	.2	1.4	.8									2.4	5.7
VARB													
CALM												4.1	
	8.8	40.0	37.7	8.0	1.4							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 900



2  
GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 4 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS JUN MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.6	.2									1.2	4.6
NNE	.2											.2	2.5
NE			.1		.1							.2	12.5
NNE		.1	.2		.1							.5	4.5
E			.5		.1							.8	9.4
ESE		.1	1.0	.2								1.7	8.4
SE		.1	.1									.2	6.5
SSE	.1	.4	.4	.1								1.0	7.1
S			.6	.5	.1							1.8	9.3
SSW	.1	.4	1.3	.7	.4	.1						1.3	10.4
SW	.4	.7	2.5	1.9	.4	.1						6.0	16.3
WSW	.3	2.2	4.7	2.3	.4							12.4	8.8
W	1.2	6.1	18.7	4.5								32.4	6.2
WNW	1.2	6.2	12.9	1.9								23.8	8.1
NW	.7	1.9	4.3	1.5								9.9	7.3
NNW	.5	1.0	1.9	.5								4.8	6.6
VARB													
CALM												1.7	
	1.8	25.9	49.6	15.6	1.6	.2						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 829



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2-4 STATION WILLIAMS AFB A. 69-74.73-80 YEARS MONTH 10-10-1000 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.4	2.1	1.1	.3								5.9	4.8
NNE	.1	.1	.3	.1								.7	7.8
NE	.2	.6	.1	.1	.1							1.3	7.7
NNE	.1		.1		.3	.1	.1					.9	16.8
E	.1	.1	.3	.4	.7	.1						2.3	12.6
ESE		.1	.4	.3	.1							1.1	10.0
SE	.1	.1	.3	.3			.1					1.4	9.9
SSE			.4	.1								.7	8.4
S	.1	.1	.1		.1							.6	8.3
SSW	.1		.3	.9	.3							.6	12.2
SW	.4	.6	1.4	1.6	.3							4.7	4.6
WSW	.7	1.3	3.0	1.0								2.6	6.4
W	.6	8.2	8.7	1.4	.3							2.2	6.6
WNW	1.1	6.7	8.0	1.6								17.3	7.2
NW	2.9	6.6	7.3	1.6								1.3	6.7
NNW	1.9	6.3	4.7	.4								13.3	6.1
VARB.													
CALM												3.4	
	12.6	38.1	36.8	10.2	2.3	.3	.3					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 698



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

STATION 24 WILLIAMS AFB AZ STATION NAME 69-70.73-80 YEARS  
CLASS ALL WEATHER MONTH JUN  
HOURS (L.S.T.) 2100-2300  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.2										7.5	2.6
NNE	1.5	.2										1.7	2.4
NE	1.7	.7	.2									2.7	3.5
NNE	1.2	.5		.2								3.0	3.5
E	.4	1.2	.5	.2								4.0	4.9
ESE	1.7	1.2	.2	1.0								4.2	5.4
SE	.2	2.2		1.0								4.5	5.9
SSE	.7		.2									1.7	4.0
S	1.5	.7	1.0									3.2	4.6
SSW	.5	2.2	1.7	1.2								5.7	7.5
SW	.7	3.0	1.5	.7								6.0	6.4
WSW		2.2	1.0	.2								3.5	6.4
W	1.0	4.2	2.0									8.2	4.9
WNW		3.5	.5									6.0	4.2
NW	2.7	1.7										4.5	2.5
NNW	5.2	2.5	.5									8.2	3.3
VARIABLE													
CALM												25.0	
	12.2	27.7	9.5	4.7								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 401



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2174 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS  
ALL WEATHER CLASS  
ALL MONTHS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	.3	.1								2.2	4.4
NNE	.3	.1	.1	.0								.7	5.0
NE	.5	.3	.1	.0	.0							1.0	4.8
ENE	.5	.7	.2	.0	.1	.0	.0					1.6	5.8
E	1.3	4.6	1.7	.4	.2	.0						8.4	6.0
ESE	.9	4.4	4.5	.6	.0							10.5	6.7
SE	.9	2.3	2.7	.6			.0					6.5	6.7
SSE	.9	1.3	1.1	.4								3.7	6.1
S	.0	1.2	1.2	.5	.2							4.1	6.8
SSW	.0	1.2	.9	.7	.2	.0						2.8	7.9
SW	.7	1.6	1.6	.8	.2	.0						4.8	7.6
WSW	1.0	2.8	2.6	.8	.1							7.2	7.0
W	1.6	6.2	7.3	1.3	.0							16.4	6.9
WNW	.9	4.1	4.5	1.0								12.5	7.0
NW	1.1	2.5	2.2	.5								2.2	6.3
NNW	1.0	1.9	1.2	.1								4.2	5.5
VARB.													
CALM												8.2	
	14.4	36.1	32.2	7.9	1.1	.1	.0					100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 4738



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

USE WITH CAUTION  
SEE FIRST PAGE

2004 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS JUL MONTH  
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.8	.8										1.6	3.3
NNE	.4	.4										.8	3.0
NE													
ENE	2.9	2.4	.4	.8								6.5	4.6
E	2.4	13.1	2.9									25.3	4.2
ESE	2.9	12.7	0.1									21.6	5.4
SE	3.7	10.2	3.7	.8								18.4	5.5
SSE	1.2	2.1	1.2									4.5	5.2
S	.4											.4	2.0
SSW	.3	.4										1.2	3.7
SW			.4									.4	8.0
WSW		.4										.4	5.0
W	.4	.4										.8	3.5
WNW		.8	.4									1.2	5.0
NW	.8											.8	2.0
NNW	.8		.4									1.2	4.3
VARBL													
CALM												14.7	
	24.5	43.7	15.5	1.6								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 245



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

214 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS JUL MONTH  
ALL WEATHER CLASS 0600-2800 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.6										.9	4.0
NNE	.4	.1	.4									.9	5.4
NE	.1	.6	.3									2.0	3.9
ENE	1.8	2.0	.4									4.2	4.1
E	4.3	10.5	2.4	.1								17.3	4.8
ESE	2.6	13.6	9.1	.5								25.8	6.1
SE	3.1	8.8	8.7	1.0								21.6	6.3
SSE	1.7	1.8	2.2	.3								5.9	5.6
S	.9	1.0	.8	.1								2.8	5.2
SSW	.4	.1	.4									.9	5.1
SW	.3	.5	.3									1.0	5.0
WSW	.3	.5										.8	4.2
W	.5	.3										.8	2.5
WNW	.1	.6										.6	4.0
NW	.4	.4	.1									.9	4.0
NNW	.6	.6	.4	.1								1.8	4.8
VARB.													
CALM												11.7	
	18.6	42.2	25.3	2.2								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 784



**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

## SURFACE WINDS

24  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80 YEARS

JUL  
MONTH  
1950-1100  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

**CONDITION**

[illegible]TOTAL NUMBER OF OBSERVATIONS 994



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2014 STATION WILLIAMS AFB AZ 69-70.73-60 JUL MONTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5		.2								1.3	5.2
NNE	.4		.1									.6	3.2
NE	.1		.3									.4	7.1
ENE	.5		.1									.3	4.3
E	.2	1.1	.1	.1								1.7	4.9
ESE	.2	1.2	.6	.1	.1							2.3	6.6
SE	.6	1.2	.9	.1								2.8	5.6
SSE	.4	1.4	1.3	.3								3.5	6.7
S	.3	1.2	2.1	.1								4.4	6.6
SSW	1.1	2.2	1.2	.1								4.3	5.2
SW	1.1	2.6	2.5	.1	.2							5.5	6.7
WSW	1.1	4.2	4.2	.7								10.0	6.6
W	1.3	14.2	15.6	.7								32.2	6.7
WNW	1.1	5.4	9.3	.9								16.6	7.1
NW	.9	2.2	3.4	.6								7.1	6.7
NNW	.2	1.3	1.1									2.6	6.4
VARBL													
CALM												3.3	
	10.2	39.6	42.6	4.0	.3							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 726



# **SURFACE WINDS**

OF WIND  
ED  
TIONS)

1.73-60

YEARS

JUL

MONTH

1200-1400

HOURS (L.S.T.)

28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
					1.3	5.2
					.6	3.2
					.4	7.2
					.3	4.3
					1.7	4.9
					2.3	6.6
					2.8	5.6
					3.5	6.7
					4.4	6.6
					4.3	5.2
					5.5	6.7
					10.0	6.6
					12.2	6.7
					16.6	7.1
					7.1	6.7
					2.6	6.4
					3.3	
					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

926

CLIMATE CLIMATOLOGY BRANCH  
WLTAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUEN  
DIRECTION AND  
(FROM HOURLY OBSI

2 4  
STATION

WILLIAMS AFB AZ

STATION NAME

ALL WEATHE  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27
N	.1	.1	.1	.1		
NNE	.1		.2	.4	.1	
NE	.1		.4	.1		
ENE	.1	.2	.1			
E		.3	.4		.1	
ESE	.1		.2	.4		
SE		.3	.6			
SSE		.2	.7		.1	
S	.1	.4	.8	.2	.2	
SSW	.1	.5	.6	.6		
SW		1.2	1.0	.4	.1	
WSW	.6	2.4	2.9	.2		
W	2.4	12.6	19.1	3.6	.1	
WNW	.5	5.0	12.8	5.2	.1	
NW	.4	5.4	6.2	2.2		
NNW	.2	1.7	1.4	.2		
VARBL						
CALM						
	5.1	31.5	47.6	13.4	1.0	

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM IN



AD-A110 246 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC(U)  
OCT 81  
UNCLASSIFIED USAFETAC/DS-81/096 SBI-AD-F850 129

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(U)  
OCT 81  
USAFETAC/DS-81/096 SRI-40-FASO 129

UNCLASSIFIED

**SBI-AO-E850 129**

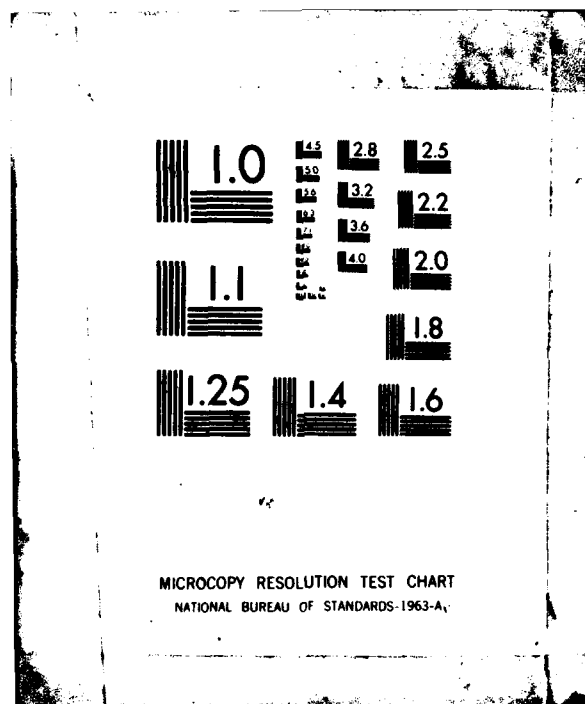
NL

255

2000









GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.3	.4	1.7	.4							3.2	10.9
NNE	.4	.1	1.1	1.3	.3							3.2	10.3
NE		.4	.4	.4	.1							1.4	9.9
ENE			.8	.4	.1							1.4	11.6
E			.6	.8	.1	.4	.3					2.2	17.6
ESE	.4	.6	.7	.7	.1	.3						2.8	10.0
SE	.1	1.3	1.1	.6								3.1	7.8
SSE	.6	.6	.6	.3	.3							2.2	8.0
S	.6	.8	1.3	.8	.1	.3						3.9	8.9
SSW	.7	.4	.4	.1	.1	.1						1.9	7.9
SW	.6	.8	1.4	1.4	.1							4.3	9.0
WSW	1.8	4.0	1.8	.3								7.9	5.4
W	2.1	11.0	8.1	.4								21.6	6.1
WNW	1.5	7.0	5.4	1.4								15.3	6.7
NW	1.4	5.7	5.4	1.1								13.6	6.8
NNW	1.4	5.0	2.1	.7	.1							9.3	6.2
VARB.													
CALM												2.5	
	12.0	38.0	31.6	12.4	2.1	1.1	.3					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 718



2  
LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
USE WITH CAUTION  
SEE FIRST PAGE

2064  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

JUL  
MONTH  
2100-2300  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.5	1.5	.5								6.2	5.7
NNE			.5	.5								1.0	11.3
NE	.7	1.5	.7	.5								3.5	7.1
ENE	.5	.5										1.0	3.3
E	1.2	1.2	1.0	1.0	.5							4.9	7.9
ESE	2.0	2.2	2.7	1.7								8.6	7.1
SE	2.0	3.0	3.5	1.0								9.4	6.6
SSE	1.0	1.2	1.7	.5		.2						4.7	7.2
S	1.5	2.2	.7	1.2	.2							5.9	7.4
SSW	1.7	2.5	1.2	1.2	.5							6.4	8.0
SW	1.0	2.7	1.5	.2								5.4	6.5
WSW	.5	2.	1.0	.2								4.4	5.7
W	3.2	4.0	.5			.2						7.9	4.4
WNW	1.7	1.5	.5	.2								4.0	4.8
NW	2.5	1.7	.7									4.9	4.3
NNW	3.0	1.2	.5		.2							4.9	4.1
VARB.													
CALM												16.8	
	23.5	30.6	18.3	8.9	1.5	.5						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 405



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 1984 STATION WILLIAMS AFB AZ 69-70, 73-80 JUL  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.7	.3	.4	.1							2.0	6.3
NNE	.3	.1	.4	.3	.1							1.2	8.2
NE	.4	.3	.3	.1	.0							1.1	6.5
ENE	.7	.6	.3	.1	.0							1.7	5.0
E	1.6	2.9	.9	.3	.1	.1	.0					5.9	5.8
ESE	1.2	3.9	2.7	.5	.0	.1						8.4	6.3
SE	1.4	3.5	3.1	.6								8.5	6.3
SSE	1.1	1.6	1.7	.2	.1	.0						4.7	6.2
S	1.1	1.7	1.2	.3	.1	.0						4.5	6.2
SSW	.8	1.1	.7	.2	.1	.0						2.9	6.2
SW	.8	1.6	1.1	.4	.1							4.0	6.6
WSW	1.7	2.7	1.9	.2								5.8	5.9
W	2.1	8.1	8.1	.8	.0	.0						19.2	6.5
WNW	1.0	4.0	5.3	1.3	.0							11.6	7.2
NW	1.0	2.6	2.9	.6								7.2	6.7
NNW	1.0	1.6	1.0	.2	.0							3.8	5.6
VARBL													
CALM												7.6	
	16.0	37.1	31.8	6.6	.7	.2	.0					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 4803



2  
GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
USE WITH CAUTION  
SEE FIRST PAGE

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH  
ALL WEATHER CLASS 3300-0500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4											.4	3.0
NNE	.4		.4									.8	6.0
NE	1.2	.8										2.0	3.8
ENE	2.0	2.0										4.0	3.6
E	6.1	16.6	4.9	.4								27.9	4.9
ESE	2.0	18.6	4.0	.8								25.5	5.4
SE	4.0	7.3	3.6	.4								15.4	5.2
SSE	.4	.8	.8									2.0	5.4
S	1.2	.4		.4								2.0	5.6
SSW	.4											.4	2.0
SW	.8	.4	.4									1.6	4.3
WSW													
W		.4										.4	4.0
WNW	.4											.4	2.0
NW	.8	.4										1.2	3.7
NNW	.8	.4										1.2	2.7
VARB													
CALM												14.6	
	21.1	48.2	14.2	2.0								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 247



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 004 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH  
ALL WEATHER CLASS 0600-0800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.1										.1	5.0
NNE	.1	.5										.6	4.6
NE	.3	.6	.1									1.0	4.3
ENE	1.6	1.5	.6									3.8	4.0
E	4.3	14.8	5.6	.3								25.0	5.2
ESE	3.1	12.9	11.8	.5								28.4	6.2
SE	2.1	9.0	6.8	.6								18.6	6.1
SSE	.8	1.9	1.3									3.9	5.4
S	.5	.8	.1	.1								1.5	4.9
SSW	.1	.4		.1								.6	6.4
SW	.3	.3										.5	3.5
WSW		.3	.1									.4	5.7
W	.3											.3	2.5
WNW	.3	.3	.1									.6	3.8
NW	.3	.8	.1									1.1	4.6
NNW	.3	.4	.1									.8	4.3
VARBL													
CALM												12.9	
	14.2	44.4	26.9	1.6								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 797



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 1.4 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH  
ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.3										.4	4.5
NNE	.6		.1									.8	3.0
NE	.4	.1	.2									.8	4.4
ENE	.2	.5	.1									.9	4.0
E	1.3	1.3	.8	.4								3.8	5.6
ESE	1.4	4.6	3.7	1.1								10.8	6.7
SE	3.1	7.4	6.9	1.1								18.5	6.1
SSE	3.3	7.0	4.0	.5								14.9	5.5
S	4.4	3.9	1.7	.1								10.1	4.3
SSW	1.4	2.0	.5	.1								4.1	4.6
SW	1.6	2.0	.3	.1								4.1	4.5
WSW	1.8	.5	.4	.1								2.9	3.9
W	2.6	4.3	.4									7.3	4.2
WNW	1.2	1.7	.2	.1								3.2	4.5
NW	.9	1.0	.5									2.4	4.5
NNW	.1	.3	.3	.1								.9	7.0
VARB													
CALM												14.3	
	24.5	37.1	20.2	3.8								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 929



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ STATION NAME 69-70, 73-80 YEARS 1200-1400 MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.2	.2	.1								1.3	4.5
NNE	.1											.1	2.0
NE	.1	.1	.1	.1								.4	7.5
ENE		.2										.2	4.0
E	.3	.6	.4	.1								1.5	6.4
ESE	.4	1.3	1.0	.1								2.8	5.8
SE	.5	2.0	1.5	1.0	.1							5.2	7.5
SSE	.9	1.9	2.0	.3								5.2	6.4
S	2.4	2.7	1.1									6.1	4.6
SSW	1.2	1.8	1.1	.3								4.4	5.7
SW	1.5	2.0	1.3	.4								5.3	5.7
WSW	1.2	5.6	3.5	.9								11.2	6.4
W	2.7	14.2	10.6	.4								28.0	6.2
WNW	1.9	4.5	6.1	1.0								13.5	6.7
NW	1.0	2.8	2.3	.2								6.2	5.9
NNW	1.5	.9	.5	.1								3.0	4.3
VARBL													
CALM												5.6	
	16.5	81.0	31.8	5.1	.1							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 14 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.8	.5									1.6	5.2
NNE		.2	.1									.3	6.7
NE		.1										.1	4.0
ENE		.1										.1	4.0
E	.1	.6	.2	.1	.1	.1						1.3	8.9
ESE	.1	.2	.1	.1								.6	7.4
SE	.1	.3	.6	.2	.2							1.5	9.2
SSE	.6	.6	.5									1.6	5.2
S	.3	.9	.8	.2	.1	.2						2.7	8.7
SSW	.2	.8	.6			.1						1.7	6.9
SW	.3	1.2	.8	.6								2.9	6.8
WSW	1.4	4.0	5.5	.8								11.6	6.8
W	1.9	11.9	17.9	2.7								34.3	7.1
WNW	1.6	6.3	11.0	.6								19.5	7.1
NW	1.4	5.3	5.7	.8								12.9	6.7
NNW	.6	2.8	2.0	.2								5.6	6.3
VARBL													
CALM												1.5	
	9.1	35.8	46.3	6.4	.5	.5						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 860



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.2	1.0	.8	.6							6.8	6.5
NNE	.3		.6	.4	.3	.4						1.9	13.3
NE	.3	.4	.3	.1	.1							1.2	8.1
ENE	.4	.4	.7	.3								1.8	7.1
E	.4	.1	.6	.8	.1	.1						2.2	10.5
ESE	.3	.6	.4	.4	.3							1.9	9.1
SE	.3	.4	.4	.1		.1						1.4	8.2
SSE	.3	.3	.8	.3	.3			.1				2.1	10.7
S	1.1	.4	.3	.7	.4	.3						3.2	10.1
SSW	.3	.7	.7	.3								1.9	6.9
SW	.8	1.2	1.2	.6	.1	.1						4.2	7.5
WSW	1.2	1.9	1.4	.4								4.7	5.9
W	2.4	9.2	4.4	.3								16.1	5.5
WNW	2.9	7.8	7.5	.4								18.6	6.0
NW	2.4	6.0	6.1	.6	.1							15.1	6.3
NNW	3.2	6.2	1.1	.6								11.1	4.7
VARBL													
CALM												5.7	
	18.4	37.7	27.5	7.1	2.4	1.1		.1				100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

721



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2 104 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS AUG MONTH  
CLASS ALL WEATHER  
HOURS (L.S.T.) 2100-2300

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	6.1	1.1	.8	1.3								9.3	4.5
NNE	.8	.5	.5	.5								2.4	7.1
NE	1.1	1.1	.5		.3							2.9	5.6
ENE	1.3	.5	.5									2.4	4.2
E	1.1	1.9	1.6	.8	.3							5.6	7.2
ESE	3.2	2.1	1.3	.5								7.1	4.9
SE	1.9	2.6	1.9	.5	.5							7.4	6.6
SSE	1.9	1.6	.5	.5	.3	.3						5.0	6.6
S	1.9	1.1	1.1	1.3	.3							5.6	7.2
SSW	.3	.8	.5	.5								2.1	7.6
SW	1.1	1.9	1.6									4.5	5.5
WSW	.5	1.3	.3									2.1	5.1
W	1.9	2.9	.5	.3								5.6	4.7
WNW	1.3	1.3	1.1									3.7	5.3
NW	.5	1.3	.5									2.4	4.8
NNW	2.9	2.9	.5	.3								6.6	3.9
VARB													
CALM												25.4	
	27.5	24.9	13.8	6.6	1.6	.3						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 378



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 4 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS AUG MONTH ALL HOURS (L.S.T.)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.7	.3	.2	.1							2.4	5.4
NNE	.3	.2	.2	.1	.0	.1						.8	6.0
NE	.3	.3	.2	.0	.0							.9	5.6
ENE	.6	.6	.3	.0								1.5	4.5
E	1.5	3.9	1.6	.4	.1	.0						7.5	5.7
ESE	1.3	4.5	3.2	.5	.0							9.5	6.2
SE	1.5	4.0	3.2	.6	.1	.0						9.4	6.3
SSE	1.2	2.3	1.6	.2	.1	.0		.0				5.6	6.0
S	1.9	1.7	.8	.3	.1	.1						4.8	5.7
SSW	.6	1.1	.6	.2		.0						2.5	5.8
SW	.9	1.4	.8	.3	.0	.0						3.4	5.8
WSW	1.0	2.3	2.0	.4								5.7	6.2
W	1.9	7.2	6.0	.6								15.7	6.2
WNW	1.5	3.6	4.4	.4								9.8	6.4
NW	1.1	2.7	2.5	.3	.0							6.6	6.1
NNW	1.2	2.0	.7	.2								4.1	5.0
VARBL													
CALM												9.7	
	17.7	38.5	28.4	4.8	.6	.3		.0				100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 4862



2  
 NATIONAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
 USE WITH CAUTION  
 SEE FIRST PAGE

214 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS SEP MONTH 1302-3500 HOURS (L.S.T.)

ALL WEATHER  
 CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.4	.4									1.6	4.5
NNE		.4										.4	4.0
NE	.4	.4		.4								1.3	7.3
ENE	1.2	2.7	.4									5.3	3.8
E	8.4	22.7	3.1	1.3								35.6	4.9
ESE	4.9	10.2	5.3									20.4	5.0
SE	2.7	7.6	.9									11.1	4.3
SSE	1.3	1.8										3.1	3.9
S	.9		.4									1.3	3.7
SSW	.4											.4	3.0
SW	.4											.4	2.0
WSW													
W	.4		.4									.9	6.5
WNW		.4										.4	4.0
NW	.4		.9									1.3	5.0
NNW	.9	.4										1.3	3.3
VARBL													
CALM												14.7	
	24.4	47.1	12.0	1.8								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 225



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS SEP MONTH 0600-2800 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.4	.4									1.1	6.1
NNE	.8	.1	.4									1.4	4.2
NE	1.8	.8	.3									2.9	3.1
ENE	3.1	2.2	.7	.3								6.3	4.2
E	6.3	13.9	6.7	.8								27.7	5.4
ESE	3.4	14.3	8.4	.8								27.0	5.9
SE	2.9	6.9	3.1	.1								13.1	5.1
SSE	2.5	1.5	.1									4.1	3.2
S	.5	.5	.1									1.2	4.0
SSW		.1										.1	4.0
SW	.5	.1										.7	2.4
WSW		.1	.1									.3	6.0
W	.3	.3	.3									.8	5.3
WNW	.3			.1								.4	6.7
NW	.3	.1		.1								.5	5.8
NNW	.3	.5	.3									1.1	4.9
VARBL													
CALM												11.4	
	23.2	42.1	21.0	2.3								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 734



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 104 STATION WILLIAMS AFB AZ STATION NAME 69-70, 73-80 YEARS SEP MONTH 0900-1100 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.3	1.3			.1						1.9	7.1
NNE	.3	.2										.6	4.0
NE	.5	.3	.1	.2								1.1	6.2
ENE	.0	.7	.3	.5								2.4	6.0
E	1.5	1.7	3.2	2.7	.6							9.7	9.2
ESE	2.3	4.3	3.3	1.8	.2	.1						12.1	7.2
SE	2.2	5.1	7.4	.8	.2							18.8	6.5
SSE	3.7	4.0	2.7	.2								10.6	5.1
S	3.7	3.5	1.3	.5								8.9	4.6
SSW	1.8	1.5	.1									3.4	3.6
SW	1.7	1.0	.5									3.2	3.7
WSW	.9	1.3	.3	.1								2.6	4.3
W	1.1	2.2	.5	.1								3.9	4.7
WNW	1.2	1.4	.2									2.6	3.8
NW	.5	1.1	.1	.1								1.8	4.9
NNW	.7	.6	.1									1.4	4.0
VARBL													
CALM												14.8	
	23.2	32.4	21.3	7.1	1.0	.2						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 874



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS SEP MONTH  
1200-1400 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.6	.5	.2	.2								1.5	5.5
NNE	.1	.7		.2	.2							1.3	9.2
NE	.1	.2	.2	.1								.7	7.7
ENE	.2	.9	.6	.1								1.8	5.9
E	.1	1.4	1.7	1.5	.7	.1						6.5	9.0
ESE	.7	.9	1.5	.9	.3	.2						4.6	9.4
SE	.7	1.1	2.7	1.5		.2						6.3	8.7
SSE	.6	2.3	2.6	.9	.1							6.5	7.5
S	1.5	4.2	2.3	.5								8.4	5.6
SSW	.6	2.6	1.0									4.2	5.4
SW	1.6	3.2	1.4	.2								6.4	5.4
WSW	2.4	5.9	2.9	.1								11.3	5.3
W	2.7	9.7	7.2									19.6	5.8
WNW	1.5	4.0	2.9									8.3	5.7
NW	2.1	2.4	1.0	.1								5.6	4.7
NNW	.5	.8	.7									1.9	5.0
VARBL													
CALM												5.0	
	16.9	40.9	28.9	6.4	1.4	.6						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 876



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 1 4  
STATION

WILLIAMS AFB AZ

STATION NAME

69-70, 73-80

YEARS

SEP

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.9	.3									1.9	4.3
NNE	.1	.4	.1	.3			.1					1.0	9.8
NE		.1	.5	.4								1.0	10.4
ENE	.4	.6	.4	.1								1.5	5.9
E	.1	1.1	1.3	1.0	.9							4.4	10.8
ESE		.3	1.6	1.0	.3	.1						3.3	11.1
SE	.5	.9	1.3	.6	.1	.1						3.5	8.2
SSE	.1	.6	1.3	.3	.1							2.4	8.2
S	1.7	1.4	.8	.3								3.4	5.6
SSW	.3	1.4	1.0	.1			.1					2.9	7.4
SW	.6	1.7	1.5	.4								3.5	6.6
WSW	.8	2.3	3.6	.4								7.0	6.8
W	1.4	14.3	12.9	.9								29.4	6.5
WNW	1.1	6.9	7.9	.9								16.8	6.7
NW	.8	5.5	4.3	.5								11.0	6.4
NNW	.1	1.9	2.0				.1					4.1	7.4
VARBL													
CALM												3.0	
	8.0	39.4	40.6	7.0	1.4	.3	.8					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

799



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS SEP MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.7	1.2	.3								5.1	5.3
NNE	1.1	.8	.2	.6		.2	.3					3.1	9.6
NE	.9	.5	.3	.2	.2							2.0	5.7
ENE	.6	.6	1.2	.5		.2						3.1	8.5
E	.6	1.4	1.1	1.5	.5							5.1	9.2
ESE	.9	1.1	1.1	.5	.3							3.8	7.2
SE	.3	.6	1.1	.6								2.6	7.9
SSE	.3	.8	.5	.5		.2						2.1	8.0
S	.9	.2	.6	.3		.2						2.1	7.1
SSW	.3	1.1	.5									1.8	5.7
SW	1.1	1.1	.8	.2								3.1	5.5
WSW	1.5	1.7	.9									4.1	5.0
W	2.8	7.4	1.4									11.5	4.7
WNW	4.3	5.1	2.8	.3	.2							12.6	5.0
NW	3.1	7.1	3.7			.2						14.0	5.3
NNW	4.3	5.2	2.0	.2								11.7	4.6
VARBL													
CALM												12.3	
	24.5	36.3	19.2	5.5	1.1	.8	.3					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 652



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
USE WITH CAUTION  
SEE FIRST PAGE

2 04  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70.73-80  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.2	3.2	.6	.3		.3						8.7	4.7
NNE	2.3	1.3	1.9	.3								5.8	5.3
NE	1.0	1.3	.6									2.9	4.8
ENE	3.2	.3	.6									4.2	3.4
E	6.8	5.2	3.9	.6	.6	.3						17.5	6.0
ESE	5.2	4.2	1.3	.3	.3							11.3	4.7
SE	2.3	1.9	1.3									5.5	4.4
SSE	.6	.3	1.3									2.3	5.4
S	.3	.6	.3		.3							1.6	7.8
SSW	.6	.6	.6									1.9	5.5
SW	.6	2.3	1.0									3.9	5.8
WSW		1.3	.3	.3								1.9	6.7
W	1.0	.6	.6									2.3	4.4
WNW	.6	.6										1.3	3.3
NW	1.9	2.6	.3	.3								5.2	4.4
NNW	2.3	.6										2.9	2.4
VARBL													
CALM												20.7	
	33.0	27.2	14.9	2.3	1.3	.6						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 309



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS SEP MONTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.9	.6	.1		.0						2.6	5.4
NNE	.6	.5	.2	.2	.0	.0	.1					1.6	7.3
NE	.6	.4	.3	.2	.0							1.6	5.7
NNE	1.2	1.0	.6	.2		.0						3.1	5.3
E	2.6	4.8	2.9	1.5	.5	.0						12.2	6.9
ESE	1.9	4.4	3.1	.9	.2	.1						10.7	6.7
SE	1.5	3.7	3.0	.7	.1	.1						9.0	6.4
SSE	1.4	1.8	1.5	.3	.0	.0						5.1	5.9
S	1.5	1.9	1.0	.3	.0	.0						4.7	5.3
SSW	.6	1.3	.5	.0			.0					2.5	5.3
SW	1.1	1.3	.8	.1								3.4	5.2
WSW	1.0	2.2	1.5	.1								4.8	5.6
W	1.5	6.0	4.1	.2								11.9	5.8
WNW	1.4	3.1	2.4	.2	.0							7.2	5.8
NW	1.3	2.9	1.6	.2		.0						6.0	5.5
NNW	1.1	1.5	.9	.0			.0					3.5	5.1
VARS													
CALM												10.2	
	21.2	37.9	24.9	5.3	1.0	.4	.1					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 4469



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFM WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**  
USE WITH CAUTION  
SEE FIRST PAGE

214 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS OCT MONTH  
ALL WEATHER CLASS 0300-0500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3										1.3	4.7
NNE		.4										.4	5.0
NE	1.3	1.7										3.0	3.7
ENE	3.4	5.1		.4								8.9	4.1
E	12.3	21.3	3.8									37.4	4.3
ESE	5.1	11.5	4.7	.4								21.7	5.2
SE	3.0	3.4	2.6	.4								9.4	5.2
SSE	.9	.9										1.7	3.5
S	.4	.9	.4									1.7	5.3
SSW		.4	.9									1.3	8.0
SW	.4		.9									1.3	7.7
WSW	.4											.4	2.0
W		.4										.4	4.0
WNW	.4	.4										.9	4.0
NW			.4									.4	7.0
NNW													
VARB													
CALM												9.8	
	27.7	47.7	13.6	1.3								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 235



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2004 WILLIAMS AFB AZ 69-70, 73-80 OCT  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0600-0800  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	.1									1.2	4.6
NNE		.7	.3									.9	6.1
NE	.2	.1	.3									1.4	3.4
ENE	.2	.0	.1									4.3	3.7
E	8.5	16.8	3.5	.3								29.0	4.6
ESE	4.9	13.3	6.7	.1								24.3	5.1
SE	3.1	7.7	3.3	.8								14.8	5.5
SSE	1.3	1.8	.4									3.5	4.0
S	.5	.9	.1	.1								1.7	4.9
SSW	.4	.4	.1									.9	4.4
SW	.3	.3	.7									1.2	5.9
WSW		.4	.4									.8	6.7
W	.3	.1										.4	3.2
WNW	.5											.5	2.3
NW	.4		.1									.5	3.5
NNW	.1	.1										.3	4.0
VARB													
CALM												14.3	
	23.9	45.1	15.3	1.3								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 769



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATL. WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 174 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS OCT MONTH  
0900-1100 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.2	.2	.3	.1							1.6	7.0
NNE	.7	.8	.3	.2								2.0	5.6
NE	.4	.7	.2	.3								1.7	6.3
ENE	1.2	.6	.7	.4								2.9	5.9
E	1.7	2.2	1.6	1.7	.1							7.2	7.4
ESE	2.3	3.8	3.8	1.6	.2							11.6	6.8
SE	3.4	6.2	3.9	1.1	.1							14.7	6.0
SSE	2.5	3.4	2.1	.6	.1							8.7	5.5
S	2.8	1.7	.8	.4								5.6	4.7
SSW	1.1	.1	.7	.4								2.3	6.4
SW	1.4	1.0	.7	.6	.1							3.8	6.3
WSW	1.0	1.8	.2	.1								3.1	4.6
W	2.1	1.8	.1	.2								4.2	4.1
WNW	1.8	.7	.4	.1								3.0	3.7
NW	1.3	.3	.3									2.0	3.9
NNW	.6	.3	.1									1.0	3.9
VARIABLE													
CALM												24.6	
	25.0	25.5	16.1	8.1	.8							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 923



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70,73-80 YEARS OCT MONTH  
1200-1400 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.2	.4	.2	.1							2.5	5.9
NNE	.4	.4	.4	.2								1.6	6.9
NE	.8	.2	.6	.1		.1						1.8	6.6
ENE	.8	.7	1.2	.2	.1							3.0	6.6
E	1.0	1.2	1.2	.9	.2	.1						4.7	7.9
ESE	1.2	1.6	1.8	1.3								5.9	7.3
SE	.6	1.1	2.0	.7								4.3	7.3
SSE	1.0	2.2	1.0	.2								4.4	5.6
S	2.3	2.5	1.7	.6	.1							7.2	5.6
SSW	2.4	1.7	1.4	.2		.1						5.9	5.6
SW	1.6	2.2	1.6	.7	.1	.1						6.2	6.6
WSW	3.7	3.1	2.0	.4								9.2	4.9
W	4.7	6.4	3.7	.8	.3	.2						10.1	5.8
WNW	1.9	2.5	1.2	.1								5.8	4.7
NW	.8	1.4	.9	.1								3.2	5.4
NNW	1.3	.9	.2	.1								2.5	4.0
VARB													
CALM												15.8	
	24.9	29.5	21.3	6.9	1.0	.7						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 903



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS OCT MONTH  
1500-1700 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.5	.7	.1	.1	.2						2.8	7.3
NNE	.6	.6	.7	.1	.1							2.2	6.9
NE	.5	.6	.1	.4								1.6	6.5
ENE	.6	1.0	.7									2.3	5.5
E	.2	1.2	1.1	.1								2.7	7.0
ESE	.4	.7	1.7	.2	.1							3.2	7.8
SE	.7	.9	1.5		.1	.1						3.3	7.4
SSE	.5	1.0	1.2		.1							2.8	6.6
S	1.0	1.0	1.0	.4								3.3	5.9
SSW	.6	1.3	.5	.2	.1							2.8	6.0
SW	1.2	1.8	1.3	1.0		.1	.1					5.6	7.7
WSW	1.2	4.4	3.4	.4	.1							9.5	6.4
W	3.5	15.0	8.5	.6	.2	.1						28.0	6.0
WNW	2.1	7.2	3.5	.4		.2						13.4	6.1
NW	1.8	4.3	2.4		.1							8.7	5.6
NNW	.5	1.7	.5	.1	.1							2.9	6.2
VARBL													
CALM												4.9	
	16.6	43.2	29.0	4.0	1.3	.9	.1					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 820



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 134 STATION WILLIAMS AFB AZ STATION NAME 69-72,73-80 YEARS OCT MONTH  
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	1.2	.4	.1								5.4	3.5
NNE	1.9	1.3	.4	.1								3.8	4.2
NE	.9	1.2	.1		.1							2.4	4.7
ENE	1.8	1.9	.3	.3								4.3	4.6
E	3.2	2.8	.6	.4								7.1	4.2
ESE	1.3	1.6		.1								3.1	4.0
SE	.6	2.4	.1									3.1	4.5
SSE	.9	.6	.4									1.9	4.5
S	1.2	.6	.1	.1								2.1	4.2
SSW	.3	.3	.4	.1								1.2	6.1
SW	.1	.3	.3	.1								.9	8.0
WSW	1.6	1.2	1.0	.3								4.1	5.1
W	5.4	5.0	1.2	.1	.1							11.9	4.1
WNW	5.0	2.8	.6	.1	.4							9.0	4.5
NW	2.2	2.9		.1								5.3	3.8
NNW	3.2	2.6	.3		.1							6.3	3.9
VARBL													
CALM												28.2	
	33.4	28.7	6.5	2.4	.9							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 680



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2.4 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS OCT MONTH  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		.6									1.6	4.4
NNE	1.3	.3										1.6	2.4
NE	1.6	1.9	.6	.3								4.5	4.5
ENE	3.8	1.6										5.4	2.8
E	7.6	6.7	1.6									17.9	3.6
ESE	7.4	7.4	1.3									16.0	3.8
SE	5.1	4.5	1.3									10.9	3.8
SSE	2.9	2.6	.3	.3								6.1	4.2
S	2.6	.3	.3									3.2	2.8
SSW	.3	.3	1.0	.3								1.9	6.7
SW		1.3										1.0	4.0
WSW	.3											.3	3.0
W	.3	.6	1.3	.3								2.6	7.0
WNW	.3	.3										.6	3.5
NW	.3	1.3		.3								1.6	5.8
NNW	.3		.6									1.0	6.0
VARBL													
CALM												23.7	
	37.2	28.5	9.0	1.6								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 312



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AD WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 14 WILLIAMS AFB AZ STATION NAME 69-70,73-80 YEARS OCT MONTH  
CLASS ALL WEATHER HOURS (L.S.T.) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7	.4	.2	.1	.0						2.5	5.3
NNE	.7	.7	.4	.1	.0							1.9	5.5
NE	.8	.7	.3	.2	.0	.0						2.0	5.3
ENE	1.5	1.4	.6	.2	.0							3.7	4.8
E	1.7	5.6	1.7	.6	.1	.0						11.8	5.1
ESE	2.5	4.7	2.7	.7	.1							10.7	5.7
SE	2.0	3.7	2.2	.5	.0	.0						3.4	5.8
SSE	1.4	1.9	1.0	.2	.0							4.4	5.2
S	1.6	1.3	.7	.3	.0							4.0	5.1
SSW	.9	.7	.7	.2	.0	.0						2.6	5.9
SW	.9	1.1	.9	.4	.0	.0	.0					3.4	6.8
WSW	1.4	2.0	1.3	.2	.0							4.9	5.4
W	2.2	5.1	2.5	.3	.1	.0						10.9	5.5
WNW	1.9	2.4	1.0	.1	.1	.0						5.6	5.1
NW	1.1	1.6	.7	.1	.0							3.5	4.9
NNW	1.0	1.0	.2	.0	.0							2.3	4.5
VARBL													
CALM												17.4	
	25.5	34.5	17.2	4.4	.7	.3	.0					100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 4622



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.9									.9	9.0
NNE			.5									.5	8.0
NE	1.5	1.8										3.7	3.6
ENE	2.8	3.2	.5									6.4	3.9
E	13.3	15.6	3.2									32.1	4.1
ESE	4.1	11.5	1.4									17.0	4.6
SE	.9	8.3	.9									10.1	4.7
SSE	1.8	.9										2.8	3.3
S													
SSW	.5				.5							.9	11.0
SW			.5									.5	9.0
WSW		.5										.5	4.0
W	.5											.5	2.0
WNW													
NW													
NNW	.5											.5	3.0
VARBL													
CALM												23.9	
	26.1	41.7	7.8		.5							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 218



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS NOV MONTH  
ALL WEATHER CLASS 600-6800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	3.0
NNE	.7	.5	.1									1.4	3.7
NE	.3	1.1	.5									1.8	5.4
ENE	3.3	3.1	.7	.4								7.4	4.2
E	11.5	15.3	1.6	.1								27.7	4.0
ESE	6.9	13.4	4.2									24.5	4.7
SE	2.3	6.6	2.1									11.0	4.8
SSE	1.2	1.1	.5									2.6	4.3
S	1.1	.4				.1	.1					1.8	6.5
SSW	.3	.1	.1			.1						.7	8.2
SW	.1	.3	.7									1.1	7.4
WSW	.1		.1									.3	6.5
W	.3	.3	.1									.7	4.4
WNW				.1								.1	12.0
NW	.4		.1									.5	4.0
NNW	.5		.1									.7	3.4
VARBL													
CALM												17.4	
	28.1	42.2	11.2	.7		.3	.1					100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 730



2  
 FEDERAL CLIMATOLOGY BRANCH  
 USAFETAC  
 ALL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004  
 STATION

WILLIAMS AFB AZ

STATION NAME

69-70.73-80

YEARS

NOV

MONTH

ALL WEATHER  
 CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.5	.4	.1	.1							1.8	5.9
NNE	.7	.7	.2	.4								2.0	5.5
NE	.7	.4	.2									1.3	4.0
ENE	.9	.7		.4	.2							2.2	6.6
E	2.8	1.5	.8	1.1	.4							6.5	6.4
ESE	2.8	4.3	2.1	.8								10.0	5.5
SE	2.6	6.3	2.7	.5								12.0	5.3
SSE	2.7	2.1	1.3	.2								6.3	4.6
S	2.2	1.9	.8	.1								5.0	4.5
SSW	1.5	1.3	.1	.4								3.3	4.5
SW	1.1	.5	.9	.6	.1							3.2	6.7
WSW	1.3	.9	.5	.4	.1							3.2	5.9
W	2.6	1.3	.4	.1								4.3	3.7
WNW	1.3	.7	.2	.4								2.6	5.0
NW	1.1	.5	.2									1.8	3.7
NNW	1.3	.2										1.5	2.8
VARBL													
CALM												33.1	
	26.1	23.7	10.9	5.3	.9							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

857



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 1.4 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS NOV MONTH  
1200-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.2	.6									2.4	4.9
NNE	.5	.8	.9	.1								2.3	6.3
NE	.3	.9	.2	.3								1.9	6.5
ENE	.8	.2	.8	.5								2.3	7.2
E	1.0	1.4	2.2	.7	.3	.1						5.8	8.3
ESE	.5	.7	1.4	.6								3.1	7.6
SE	.1	.5	1.2	.7	.1							2.6	9.5
SSE	.5	1.5	.5	.2	.2							2.9	6.6
S	1.4	1.7	.8	.1								4.1	5.0
SSW	1.6	1.9	.5	.3								4.3	4.9
SW	2.0	1.7	.6	.8	.2							5.4	6.0
WSW	2.4	2.6	1.4	.6	.1							7.1	5.7
W	3.8	6.1	1.9	.2	.1							12.1	4.7
WNW	4.2	4.4	1.0	.2								9.9	4.3
NW	2.1	1.3	.6	.1	.1							4.2	4.8
NNW	1.9	.3	.5	.2								2.9	4.3
VARBL													
CALM												26.7	
	23.9	27.2	15.0	5.8	1.3	.1						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 859



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 L 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

NOV  
MONTH  
1500-1700  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.7	1.5									4.3	5.4
NNE	.6	.5	.3	.1								1.5	4.9
NE	1.0	.5	.1									1.7	3.4
ENE	.1	.8	.4	.1								1.4	7.0
E	.8	2.0	1.9	.3	.5							5.5	7.8
ESE	.4	1.0	1.0	.4								2.8	7.0
SE	.6	.6	.8	.8								2.8	7.1
SSE	.9	.9	.3	.3								2.3	5.2
S	1.4	.8	.6									2.8	4.6
SSW	.9	.5	.3	.3	.5							2.4	8.5
SW	.9	1.3	.6	.1	.1							3.1	6.0
WSW	1.5	4.5	1.0	.5	.4							7.9	6.0
W	.5	12.9	4.6	1.1	.3							25.4	5.3
WNW	1.1	7.4	1.9	.8	.3							13.4	5.5
NW	2.7	2.7	1.7									7.0	4.5
NNW	1.5	1.3	.8	.3								3.8	5.1
VARBL													
CALM												12.0	
	24.1	19.2	17.7	5.0	2.0							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 785



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2004 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS NOV MONTH  
1800-2000 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.6	.2									3.7	3.6
NNE	1.5	1.3	.2									2.9	3.4
NE	1.9	4.0	.3									6.3	3.9
ENE	2.9	4.0	.3	.2								7.4	3.9
E	5.0	3.4	1.0	.8								10.2	4.5
ESE	1.9	1.8	.8									4.5	4.1
SE	1.8	1.3	.3									3.4	4.0
SSE	1.1	.2	.2									1.5	3.3
S	1.3	.5	.2	.2								2.1	4.2
SSW	1.3	.2	.2	.3	.2							1.8	6.6
SW	.5	.5	.2									1.1	4.3
WSW	1.0	1.1	.2									2.3	3.8
W	3.7	2.3	.6	.6								7.3	4.4
WNW	2.1	2.4	.3									4.8	3.8
NW	1.5	.6	.2									2.3	3.3
NNW	3.1	1.3	.3									4.7	3.4
VARBL													
CALM												33.8	
	32.1	26.5	5.3	2.1	.2							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 619



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

21104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70.73-80  
YEARS

NCV  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4										.4	4.0
NNE	.4		.8									1.2	6.3
NE	.8	3.2	.4									4.5	5.1
NNE	1.2	3.2	.8									5.3	4.6
E	12.1	14.6	1.6	.8								29.1	3.9
ESE	8.9	10.1	1.6									20.6	3.9
SE	5.3	5.3										10.5	3.3
SSE	2.0	2.0	1.2									5.3	4.8
S	1.2	1.2										2.4	3.2
SSW		.8	1.2	.4								2.4	6.8
SW													
WSW		.4										.4	5.0
W		.4										.4	4.0
WNW													
NW		.8	.4									1.2	5.7
NNW	.4											.4	2.0
VARBL													
CALM												15.8	
	32.4	42.5	8.1	1.2								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 247



BP-2

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 24 STATION NAME WILLIAMS AFB AZ YEARS 69-70, 73-80 NCV MONTH ALL  
CLASS ALL WEATHER HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.9	.5	.0	.0							2.3	4.9
NNE	.7	.7	.4	.1								1.9	5.0
NE	.9	1.4	.3	.1								2.6	4.5
ENE	1.6	1.8	.5	.3	.2							4.1	4.9
E	4.8	5.7	1.6	.6	.2	.7						12.9	5.0
ESE	2.9	4.9	1.9	.3								10.0	5.0
SE	1.6	3.5	1.3	.4	.2							6.9	5.3
SSE	1.3	1.3	.6	.1	.1							3.3	4.9
S	1.4	1.1	.5	.1		.2	.2					3.1	4.8
SSW	1.2	.8	.3	.3	.1	.2						2.5	6.1
SW	.9	.8	.6	.3	.1							2.6	6.2
WSW	1.2	1.7	.6	.3	.1							3.9	5.7
W	3.1	4.2	1.4	.4	.1							9.1	4.9
WNW	1.9	2.7	.6	.3	.2							5.6	4.9
NW	1.4	1.2	.5	.0	.2							2.9	4.4
NNW	1.5	.5	.3	.1								2.4	4.0
VARIABLE													
CALM												24.0	
	26.9	32.7	11.9	3.6	.9	.1	.0					100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 4315



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2 184  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5										.5	4.0
NNE	2.2		.5	.5								3.3	4.8
NE	.5	1.6	.5									2.7	5.2
ENE	4.9	3.8	1.1									9.8	3.8
E	12.0	20.7	2.7									35.3	4.1
ESE	6.5	9.2	1.6									17.4	4.1
SE	1.6	7.6	1.1									10.3	4.5
SSE	.5	.5										1.1	3.5
S			.5									.5	8.0
SSW													
SW			.5									.5	8.0
WSW	.5											.5	3.0
W	.5		.5	.5								1.6	8.3
WNW	.5		.5									1.1	6.0
NW	.5											.5	2.0
NNW	1.1											1.1	2.0
VARB													
CALM												13.6	
	31.5	44.0	9.8	1.1								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 184



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS DEC MONTH  
ALL WEATHER CLASS 1600-0800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.3	.6									1.3	5.6
NNE	.4	.6	.3	.1								1.4	5.5
NE	.7	1.3	.3									2.3	4.6
ENE	3.6	3.8	.4									7.8	3.6
E	11.1	18.9	1.3									31.3	3.9
ESE	7.8	10.5	1.9									20.2	4.1
SE	3.6	3.9	.6									8.1	3.9
SSE	1.2	1.4	.3									2.7	3.9
S	.7	.1	.1									1.0	3.3
SSW	.2	.3										.6	3.3
SW	.3		.1									.4	4.7
WSW			.7									.7	8.2
W	.1	.7		.1								1.0	6.0
WNW	.1	.3										.4	3.3
NW	.4	.4										.9	3.5
NNW	.3		.1									.4	4.2
VARBL													
CALM												19.3	
	31.0	42.6	6.8	.3								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 693



2  
 FEDERAL CLIMATOLOGY BRANCH  
 AFCTAC  
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS DEC MONTH  
 ALL WEATHER CLASS 0900-1100 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.6	.4									1.6	4.3
NNE	1.1	.7	.1	.1								2.0	4.0
NE	.6	1.2	.2	.1								2.1	4.0
ENE	1.2	.7	.2	.1								2.2	3.9
E	4.2	3.6	.8	.4	.1							9.2	4.3
ESE	4.2	7.1	2.8	.1								14.0	4.8
SE	3.8	4.6	2.4	.6								11.3	5.1
SSE	1.8	1.8	.5									4.0	4.1
S	1.1	1.1	.2									2.4	4.0
SSW	.6	.5	.1									1.2	3.7
SW	1.5	.7	.1	.1								2.5	3.5
WSW	1.2	.6	.2									2.0	3.3
W	.7	1.5	.7	.6								3.5	6.4
WNW	1.2	.6	.2	.2								2.2	4.9
NW	.9	.6	.2									1.8	3.9
NNW	.6	.2										.8	2.9
VARBL													
CALM												36.7	
	25.6	26.0	9.3	2.4	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 651



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2004 STATION WILLIAMS AFB AZ 69-72, 73-80 YEARS DEC MONTH  
12-0-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.4	.5	.1								3.1	4.8
NNE	.7	.9	.6	.1								2.3	5.6
NE	.2	.4	.6									1.2	6.0
ENE	.6	.4	.2									1.2	4.8
E	.6	.9	1.5	1.9								4.9	9.1
ESE	.6		.4	.2								1.2	6.1
SE	.7	.8	1.3	.1								2.9	6.0
SSE	1.2	1.3	.9	.1								3.5	5.2
S	2.1	1.4	.5	.1	.1							4.2	4.3
SSW	1.1	.5	.1	.1								1.8	4.1
SW	2.5	1.5	.5									4.5	3.6
WSW	2.7	2.1	1.2	.4								6.3	4.9
W	5.0	5.2	2.2	.6								13.8	4.5
WNW	4.1	2.5	1.1	.1								7.7	4.0
NW	3.6	1.1	.6	.4								5.6	4.0
NNW	1.6	.8	.2									2.7	3.6
VARBL													
CALM												33.0	
	9.2	21.1	12.3	4.2	.1							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 852



2  
 OFFICIAL CLIMATOLOGY BRANCH  
 USAFETAC  
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 14 STATION WILLIAMS AFB AZ 69-73-83 YEARS DEC MONTH 1500-1700 HOURS (L.S.T.)  
 ALL WEATHER CLASS  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.5	.4	.1								4.1	4.2
NNE	.7	.4	.7									1.8	5.1
NE	.7	.4	.7	.4								2.2	6.8
ENE	.5	.7	.8	.3								2.3	7.1
E	.7	1.1	1.4	1.4								4.5	7.7
ESE	.2	.3	.1	.1								1.4	5.3
SE	1.1	.3	.3	.3								1.9	4.9
SSE	.7	.8		.1								1.6	4.5
S	.7	.5	.3			.1						1.6	5.8
SSW	1.4	.7	.3		.1							2.7	4.5
SW	1.2	1.6	.5	.3								3.7	4.7
WSW	2.2	3.1	.7									5.8	4.2
W	7.9	9.9	2.8	.9								21.6	4.7
WNW	2.3	7.3	1.9	.1								13.7	4.4
NW	2.6	2.6	.5	.4								5.1	5.0
NNW	1.2	1.1	.3	.1								2.7	4.1
VARBL													
CALM												22.4	
	28.0	33.1	11.7	4.6	.1	.1						100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 737



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2 104 STATION WILLIAMS AFB AZ 69-70, 73-80 YEARS DEC MONTH  
1800-2000 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	1.6	.2	.2								5.0	3.4
NNE	1.4	1.0										2.4	3.3
NE	1.4	2.6	.4	.2								4.6	4.5
ENE	2.6	2.2										5.0	3.5
E	5.0	5.6										10.6	3.4
ESE	2.4	2.0	.2									4.6	3.3
SE	2.2	.6	.2	.2								3.2	3.8
SSE	.8	.6										1.4	3.0
S	1.0	.6										1.6	2.9
SSW	1.0	.4										1.4	3.0
SW	1.4	1.2										2.6	3.5
WSW	1.8	.2										2.0	2.3
W	2.6	2.6	.2									5.4	3.6
WNW	2.8	1.0	.2									4.0	3.1
NW	1.6	1.2										2.8	3.1
NNW	2.0	1.0										3.0	3.1
VARBL													
CALM												40.2	
	33.3	24.5	1.4	.6								100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 498



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

USE WITH CAUTION  
SEE FIRST PAGE

2014 STATION WILLIAMS AFB AZ 69-70.73-80 YEARS DEC MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3		.5									2.7	3.5
NNE	.9	.5	1.4									2.7	5.8
NE	1.4		1.4									2.7	5.5
ENE	4.1	2.7	.5									7.2	3.7
E	13.6	12.9	.5									24.9	3.4
ESE	5.6	7.7	1.4									17.6	3.6
SE	1.8	5.4										7.2	3.9
SSE	2.7	1.4										4.1	2.8
S	.9	1.4	.5									2.7	4.8
SSW	.9		.5									1.4	3.7
SW	1.4	.5										1.8	2.8
WSW	.5											.5	2.0
W		.5										.5	4.0
WNW		.5										.5	4.0
NW	.5			.5								.9	9.5
NNW													
VARBL													
CALM												22.6	
	39.4	31.2	6.3	.5								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 221



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2174 STATION WILLIAMS AFB AZ 69-75.73-80 YEARS DEC MONTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.0	.4	.1								2.8	4.2
NNE	.9	.7	.4	.1								2.1	4.8
NE	.7	1.0	.5	.1								2.3	5.2
ENE	1.9	1.6	.4	.1								3.9	4.1
E	5.0	6.6	1.1	.7	.0							13.5	4.5
ESE	3.4	4.5	1.2	.1								9.2	4.3
SE	2.2	2.6	1.0	.2								6.0	4.7
SSE	1.2	1.2	.3	.0								2.8	4.2
S	1.1	.8	.3	.0	.0	.0						2.2	4.3
SSW	.8	.5	.1	.0	.0							1.5	3.9
SW	1.4	.9	.3	.1								2.7	3.9
WSW	1.6	1.2	.5	.1								3.4	4.4
W	2.2	3.7	1.2	.5								8.5	4.8
WNW	2.3	2.2	.7	.1								5.3	4.2
NW	1.8	1.0	.3	.2								3.2	4.3
NNW	1.0	.5	.1	.0								1.7	3.5
VARBL													
CALM												28.9	
	29.7	30.0	8.8	2.4	.1	.0						100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 4036



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

204 STATION WILLIAMS AFB AZ 69-70, 73-81 YEARS ALL MONTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.8	.4	.1	.0	.0						2.5	5.0
NNE	.5	.5	.3	.1	.0	.0	.0					1.5	5.9
NE	.7	.6	.3	.1	.0	.0						1.7	4.9
ENE	1.2	1.1	.4	.1	.0	.0	.0					2.9	4.6
E	3.1	5.2	1.6	.6	.1	.0	.0					10.6	5.3
ESE	2.1	4.4	2.7	.5	.1	.0						9.7	5.8
SE	1.6	3.1	2.2	.4	.0	.0	.0					7.4	5.8
SSE	1.3	1.6	1.0	.2	.0	.0		.0				4.1	5.5
S	1.4	1.4	.9	.3	.1	.0	.0					4.1	5.9
SSW	.9	1.1	.8	.4	.1	.0	.0					3.3	6.8
SW	1.0	1.4	1.1	.5	.1	.0	.0					4.0	6.6
WSW	1.2	2.2	1.7	.5	.1	.0						5.7	6.3
W	2.3	5.2	4.0	.7	.1	.0	.0					12.4	6.1
WNW	1.5	2.9	2.3	.5	.1	.0						7.3	6.1
NW	1.2	1.9	1.3	.3	.0	.0						4.7	5.7
NNW	1.1	1.3	.6	.1	.0		.0					3.1	4.9
VARBL													
CALM												14.9	
	22.2	34.7	21.5	5.6	.9	.2	.0	.0				100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 54917



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2 24 STATION WILLIAMS AFB AZ 69-70, 73-81 YEARS ALL MONTH  
INSTRUMENT CLASS CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE.  
CONDITION AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE  
ALL HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.4		.8								4.0	6.6
NNE		1.6	.8			.8	1.6					4.8	17.0
NE	.3		.8	.8								2.4	8.7
ENE	2.4	3.2										5.6	3.6
E	1.6	1.6	1.6	2.4	.8	1.6						9.5	11.2
ESE	1.6	2.4	.8	2.4		1.6						8.7	10.7
SE	3.2	2.4			.8	.8	.8					7.9	10.3
SSE				.8	.8	1.6						3.2	19.8
S	.3	1.6			.8	2.4						5.6	14.9
SSW	1.6	.8			3.2		.8					6.3	14.1
SW	.8	2.4		.8		.8						4.8	9.3
WSW		.8	.8									1.6	7.0
W	.8	3.2	.8	.8	1.6	.8						7.9	10.6
WNW	.8	1.6	.8	.8	1.6	1.6						7.1	13.3
NW		.8	.8									1.6	7.0
NNW	.8	.8	.8				.8					3.2	10.8
VARBL													
CALM												15.9	
	15.9	25.4	7.9	9.5	9.5	11.9	4.0					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 126



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side



EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
IV 1800																
IV 1500					91.0											92.6
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500										97.4						98.1
IV 400																
IV 300																
IV 200																
IV 100																
IV 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.



#### ADDITIONAL EXAMPLES

##### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

##### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATC WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 104

WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING	72.3	73.6	74.0	74.5	74.9	74.9	74.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 20000	74.5	75.7	76.2	76.6	77.0	77.0	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 18000	74.9	76.2	76.6	77.0	77.4	77.4	77.4	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 16000	74.9	76.2	76.6	77.0	77.4	77.4	77.4	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 14000	77.0	78.3	78.7	79.1	79.6	79.6	79.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000	80.4	81.7	82.1	82.6	83.0	83.0	83.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 10000	85.1	86.4	86.8	87.2	87.7	87.7	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 9000	86.0	87.2	87.7	88.1	88.5	88.5	88.5	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 8000	88.9	90.2	90.6	91.1	91.5	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 7000	89.8	91.1	91.5	91.9	92.3	92.3	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 6000	91.9	93.2	93.6	94.0	94.5	94.5	94.5	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 5000	93.6	95.3	95.7	96.6	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 4500	93.6	95.3	95.7	96.6	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 4000	93.6	95.3	95.7	96.6	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3500	93.6	95.3	95.7	96.6	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3000	94.5	96.2	97.0	97.9	98.7	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2500	94.5	96.2	97.0	97.9	98.7	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2000	94.5	96.2	97.0	97.9	98.7	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1800	94.5	96.2	97.0	97.9	98.7	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	94.9	97.0	97.9	98.7	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 235



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 124

WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	66.1	67.9	68.3	68.6	69.0	69.0	69.1	69.5	69.5	69.6	69.8	69.8	69.8	69.8	69.9	70.0
≥20000	70.2	72.1	72.5	72.8	73.2	73.3	73.5	73.9	73.9	74.0	74.1	74.1	74.1	74.1	74.2	74.4
≥18000	71.1	73.1	73.5	73.7	74.1	74.2	74.4	74.8	74.8	74.9	75.0	75.0	75.0	75.0	75.2	75.3
IV 16000	71.1	73.1	73.5	73.7	74.1	74.2	74.4	74.8	74.8	74.9	75.0	75.0	75.0	75.0	75.2	75.3
IV 14000	74.1	76.2	76.6	76.9	77.3	77.4	77.5	77.9	77.9	78.1	78.2	78.2	78.2	78.3	78.4	78.6
IV 12000	77.0	79.2	79.6	79.9	80.3	80.4	80.6	80.9	80.9	81.1	81.2	81.2	81.2	81.3	81.5	81.6
IV 10000	80.8	83.2	83.6	83.8	84.4	84.5	84.6	85.0	85.0	85.2	85.3	85.3	85.3	85.4	85.5	85.7
IV 9000	82.0	84.5	84.9	85.2	85.7	85.8	85.9	86.3	86.3	86.5	86.6	86.6	86.6	86.7	86.9	87.0
IV 8000	84.5	87.1	87.5	87.8	88.3	88.4	88.6	89.0	89.0	89.1	89.2	89.2	89.2	89.4	89.5	89.6
IV 7000	85.7	88.4	88.8	89.1	89.6	89.8	89.9	90.3	90.3	90.4	90.5	90.5	90.5	90.7	90.8	90.9
IV 6000	88.7	90.8	91.2	91.5	92.0	92.1	92.2	92.6	92.6	92.8	92.9	92.9	92.9	93.0	93.2	93.3
IV 5000	91.7	94.5	94.9	95.1	95.7	95.8	95.9	96.3	96.3	96.5	96.6	96.6	96.6	96.7	96.8	97.0
IV 4500	92.7	94.7	95.1	95.4	95.9	96.1	96.2	96.6	96.6	96.7	96.8	96.8	96.8	97.0	97.1	97.2
IV 4000	92.7	94.9	95.3	95.5	96.1	96.2	96.3	96.7	96.7	96.8	97.0	97.0	97.0	97.1	97.2	97.4
IV 3500	92.2	95.0	95.4	95.7	96.3	96.5	96.6	97.0	97.0	97.1	97.2	97.2	97.2	97.4	97.5	97.6
IV 3000	92.3	95.8	96.3	96.6	97.4	97.6	97.9	98.4	98.4	98.6	98.7	98.7	98.7	98.8	98.9	99.1
IV 2500	92.9	95.8	96.3	96.6	97.4	97.6	97.9	98.4	98.4	98.6	98.7	98.7	98.7	98.8	98.9	99.1
IV 2000	92.9	95.8	96.3	96.6	97.4	97.6	97.9	98.4	98.4	98.6	98.7	98.7	98.7	98.8	98.9	99.1
IV 1800	92.9	95.8	96.3	96.6	97.4	97.6	97.9	98.4	98.4	98.6	98.7	98.7	98.7	98.8	98.9	99.1
IV 1500	93.0	96.2	96.7	97.0	97.8	98.0	98.3	98.8	98.8	98.9	99.1	99.1	99.1	99.2	99.3	99.5
IV 1200	93.0	96.2	96.7	97.0	97.8	98.0	98.3	98.8	98.8	98.9	99.1	99.1	99.1	99.2	99.3	99.5
IV 1000	93.3	96.5	97.0	97.2	98.0	98.3	98.6	99.1	99.1	99.2	99.3	99.3	99.3	99.5	99.6	99.7
IV 900	93.3	96.5	97.0	97.2	98.0	98.3	98.6	99.1	99.1	99.2	99.3	99.3	99.3	99.5	99.6	99.7
IV 800	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	99.9
IV 700	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	99.9
IV 600	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	99.9
IV 500	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	99.9
IV 400	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	99.9
IV 300	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	100.0
IV 200	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	100.0
IV 100	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	100.0
IV 0	93.3	96.5	97.0	97.2	98.0	98.3	98.7	99.2	99.2	99.3	99.5	99.5	99.5	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 761



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFM WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4

WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

8900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	66.2	69.0	69.4	69.8	77.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 20000	73.1	76.0	76.8	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IN 18000	73.6	76.4	77.2	77.6	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IN 16000	74.1	76.9	77.7	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IN 14000	76.6	79.9	81.7	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IN 12000	79.4	82.9	83.8	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IN 10000	82.1	85.6	86.4	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IN 9000	82.9	86.3	87.2	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IN 8000	84.7	87.4	88.3	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IN 7000	84.8	88.2	89.1	89.4	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
IN 6000	87.8	91.3	92.7	93.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IN 5000	91.1	94.2	95.7	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IN 4500	91.8	94.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IN 4000	90.9	94.8	96.2	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IN 3500	91.1	95.0	96.4	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IN 3000	91.8	95.8	97.4	97.9	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IN 2500	91.9	95.9	97.6	98.0	98.4	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IN 2000	92.1	96.0	97.7	98.1	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IN 1800	92.2	96.2	97.9	98.3	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1500	92.2	96.2	97.9	98.3	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1200	92.2	96.2	97.9	98.3	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IN 1000	92.2	96.2	97.9	98.3	98.9	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 900	92.2	96.2	97.9	98.3	98.9	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 800	92.3	96.3	98.0	98.4	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IN 700	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 600	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 500	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 400	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 300	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 200	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 100	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IN 0	92.3	96.3	98.0	98.4	99.0	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1974  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	66.1	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 20000	72.9	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 18000	74.7	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 16000	74.4	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 14000	76.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 12000	79.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 10000	82.4	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 9000	83.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 8000	85.2	88.2	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 7000	86.8	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 6000	90.0	93.1	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 5000	91.9	95.3	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 4500	92.2	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4000	92.9	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3500	93.6	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 3000	94.7	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500	94.9	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 2000	95.2	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800	95.2	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500	95.2	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	95.2	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	95.2	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	95.2	99.2	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TO\* AL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

ILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	¾
NO CEILING ≥ 20000	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 18000	72.9	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 16000	74.7	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 14000	75.7	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 12000	78.3	81.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 10000	81.3	83.6	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 9000	84.1	86.4	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 8000	85.5	88.0	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 7000	86.7	89.3	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 6000	88.1	90.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 5000	91.2	93.8	94.2	94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 4500	93.2	95.9	96.2	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000	93.4	96.1	96.5	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 3500	93.9	96.6	97.1	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 3000	94.2	96.8	97.2	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 2500	95.7	98.4	98.8	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2000	95.7	98.5	98.9	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	95.9	98.9	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 822



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

18 0-1000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	69.7 75.5	71.7 77.6	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9	72.0 77.9
≥ 18000 IV 16000	76.3 76.7	78.4 78.9	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3	78.9 79.3
≥ 14000 IV 12000	79.6 82.1	81.8 84.2	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8	82.2 84.8
≥ 10000 IV 9000	85.1 86.2	87.3 88.7	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3	87.9 89.3
≥ 8000 IV 7000	88.8 89.3	91.3 91.7	91.9 92.3	91.9 92.3	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5	92.0 92.5
≥ 6000 IV 5000	92.2 93.6	94.9 96.3	95.6 96.9	96.0 97.4	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0	96.5 98.0
≥ 4500 IV 4000	93.6 94.1	96.3 96.8	96.9 97.4	97.4 97.9	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5	98.0 98.5
≥ 3500 IV 3000	94.6 95.3	97.4 98.0	98.1 98.6	98.5 99.1	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7	99.1 99.7
≥ 2500 IV 2000	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800 IV 1500	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200 IV 1000	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900 IV 800	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700 IV 600	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500 IV 400	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 IV 200	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 IV 0	95.3 95.3	98.0 98.0	98.6 98.6	99.1 99.1	99.8 99.8	99.8 99.8	99.8 99.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 653

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

SEE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	≥¼
NO CEILING	81.4	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 20000	84.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 18000	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 16000	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 14000	88.3	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 12000	91.8	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 10000	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 9000	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 8000	96.8	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 7000	96.8	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 6000	98.2	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 5000	98.9	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 4500	98.9	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 4000	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 261



2  
JULIAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 114

WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	67.9	70.0	70.2	70.3	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7
≥ 20000	73.6	75.8	76.1	76.3	76.4	76.4	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.7
≥ 18000	74.6	76.8	77.1	77.3	77.4	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.7
≥ 16000	75.7	77.2	77.5	77.7	77.8	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.1	78.1
≥ 14000	77.7	80.0	80.3	80.5	80.6	80.6	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9
≥ 12000	80.6	83.0	83.4	83.6	83.7	83.7	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.0
≥ 10000	83.7	86.1	86.6	86.8	87.0	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2
≥ 9000	84.8	87.3	87.8	88.0	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4	88.4
≥ 8000	86.6	89.2	89.6	89.8	90.0	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3
≥ 7000	87.6	90.2	90.7	90.9	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3
≥ 6000	90.4	93.1	93.7	94.0	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6
≥ 5000	92.5	95.5	96.0	96.4	96.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0
≥ 4500	92.8	95.7	96.3	96.6	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2
≥ 4000	93.1	96.0	96.6	96.9	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.6
≥ 3500	93.5	96.4	96.9	97.3	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9	97.9
≥ 3000	94.3	97.3	98.0	98.3	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
≥ 2500	94.4	97.5	98.1	98.4	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3
≥ 2000	94.5	97.6	98.2	98.6	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4
≥ 1800	94.6	97.7	98.3	98.7	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
≥ 1500	94.6	97.8	98.4	98.8	99.2	99.3	99.4	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6
≥ 1200	94.6	97.8	98.4	98.8	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 1000	94.6	97.8	98.5	98.8	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
≥ 900	94.6	97.8	98.5	98.8	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
≥ 800	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 700	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 600	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 500	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 400	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥ 300	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0
≥ 200	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0
≥ 100	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0
≥ 0	94.7	97.9	98.5	98.9	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 4552



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.9	75.9
≥ 20000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.5	79.5
≥ 18000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.5	79.5
IV 16000	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.5	79.5
≥ 14000	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.8	81.8
IV 12000	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.6	83.6
≥ 10000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	87.3	87.3
IV 9000	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6
≥ 8000	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9	90.9
IV 7000	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.8	91.8
≥ 6000	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.5	94.5
IV 5000	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.3	97.3
≥ 4500	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.2	98.2
IV 4000	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.2	98.2
≥ 3500	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.6	98.6
IV 3000	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.1	99.1
≥ 2500	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 2000	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 1800	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 1500	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 1200	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 1000	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 900	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 800	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 700	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 600	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 500	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 400	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 300	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 200	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
≥ 100	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0
IV 0	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 220



2  
GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2014  
STATION

WILLIAMS AFB AZ  
STATION NAME

70, 73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	72.2	72.9	72.9	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 20000	76.2	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 18000	77.1	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 16000	77.4	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 14000	80.4	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 12000	82.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 10000	85.1	86.4	86.5	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 9000	86.3	87.5	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 8000	87.4	88.6	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 7000	88.1	89.3	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 6000	91.3	93.0	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 5000	94.5	96.2	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 4500	94.8	96.5	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 4000	95.5	97.2	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 3500	96.2	97.9	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 3000	96.8	98.5	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 2500	96.8	98.7	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 2000	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1800	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1500	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1200	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 1000	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 900	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 800	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 700	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	96.8	99.0	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 713



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

70, 73-81  
YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	72.4	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 20000	77.3	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 18000	78.8	80.2	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 16000	79.1	80.6	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 14000	81.1	82.4	82.4	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 12000	83.3	84.9	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 10000	85.2	86.8	86.8	87.0	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 9000	86.3	87.9	87.9	88.0	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 8000	88.4	90.0	90.1	90.2	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 7000	88.9	90.5	90.6	90.7	91.0	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 6000	90.9	92.7	92.8	92.9	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 5000	93.8	96.1	96.3	96.5	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 4500	93.8	96.1	96.3	96.5	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 4000	94.8	97.3	97.6	97.7	98.3	98.3	98.3	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 3500	94.9	97.4	97.7	97.8	98.4	98.4	98.4	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 3000	95.4	97.9	98.2	98.3	98.9	98.9	98.9	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 2500	95.5	98.2	98.4	98.5	99.1	99.1	99.1	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 2000	95.5	98.2	98.4	98.7	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1800	95.5	98.2	98.4	98.7	99.3	99.3	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1500	95.5	98.4	98.7	98.9	99.5	99.5	99.5	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1200	95.5	98.4	98.7	98.9	99.5	99.5	99.5	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	95.5	98.4	98.7	98.9	99.5	99.5	99.5	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 900	95.5	98.4	98.7	98.9	99.5	99.5	99.5	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 800	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	95.5	98.4	98.7	98.9	99.6	99.6	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 920



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2  
2004

WILLIAMS AFB AZ

70, 73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	70.7	71.7	71.8	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000	77.9	79.7	79.2	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 18000	78.6	79.7	79.9	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 16000	78.8	79.9	80.2	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 14000	81.4	82.5	82.7	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IV 12000	83.1	84.2	84.4	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
IV 10000	84.9	86.0	86.3	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 9000	85.8	86.9	87.1	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 8000	87.0	88.1	88.3	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 7000	87.6	88.7	88.9	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 6000	90.7	91.2	91.5	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 5000	92.5	94.2	94.4	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 4500	92.8	94.5	94.8	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 4000	94.4	95.2	95.6	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 3500	95.3	97.1	97.4	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 3000	96.6	98.4	98.8	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 2500	96.6	98.4	98.8	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 2000	96.6	98.4	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1800	96.6	98.4	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1500	96.6	98.5	98.9	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 1200	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	96.6	98.7	99.0	99.4	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

822



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

214  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	70.0	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 20000	76.4	76.9	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 18000	77.8	78.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 16000	78.3	78.9	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 14000	80.7	81.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 12000	82.6	83.1	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 10000	85.9	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 9000	87.1	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 8000	88.6	89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 7000	89.2	89.7	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 6000	91.8	92.5	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 5000	94.1	94.8	95.5	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 4500	94.3	95.1	95.8	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4000	95.9	96.8	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 3500	96.6	97.5	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 3000	97.4	98.3	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2500	97.4	98.3	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2000	97.4	98.4	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1800	97.4	98.4	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1500	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.4	98.4	99.2	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 757



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 194  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 20000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 18000	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 16000	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 14000	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 12000	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 10000	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 9000	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 8000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 7000	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 6000	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 5000	96.8	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 4500	96.8	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 4000	98.1	98.5	98.5	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3500	98.2	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 3000	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.7	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 617



GLOBAL CLIMATOLOGY BRANCH  
NOAFETAC  
AFS WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7	81.3 85.7
IV 18000 IV 16000	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1	86.1 86.1
IV 14000 IV 12000	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8	87.2 90.8
IV 10000 IV 9000	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9	94.5 94.9
IV 8000 IV 7000	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0	95.6 96.0
IV 6000 IV 5000	97.8 98.5	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6	98.2 99.6
IV 4500 IV 4000	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 3500 IV 3000	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 2500 IV 2000	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 1800 IV 1500	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 1200 IV 1000	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 900 IV 800	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 700 IV 600	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 500 IV 400	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 300 IV 200	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 100 IV 0	98.9 98.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 273



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFM WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1 4

WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	73.1	73.8	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 20000	78.2	78.9	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 18000	79.2	79.9	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 16000	79.7	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7
≥ 14000	82.1	82.7	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 12000	84.1	84.8	84.9	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 10000	86.7	87.5	87.6	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 9000	87.7	88.5	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 8000	89.2	90.0	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4
≥ 7000	89.7	90.5	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 6000	92.1	93.2	93.4	93.4	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 5000	94.6	95.9	96.2	96.3	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 4500	94.8	96.2	96.4	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 4000	95.9	97.4	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3500	96.4	97.9	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000	97.1	98.6	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4
≥ 2500	97.1	98.7	99.1	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2000	97.1	98.8	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 1800	97.1	98.8	99.1	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7
≥ 1500	97.1	98.9	99.2	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 1200	97.1	98.9	99.2	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	97.1	98.9	99.2	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	97.1	98.9	99.2	99.4	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.1	98.9	99.2	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4222



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ

70.73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	72.9	73.3	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 20000	78.1	78.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 18000	78.5	78.9	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 16000	78.9	79.4	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 14000	81.0	81.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 12000	82.6	83.0	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 10000	86.6	87.0	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 9000	87.0	87.4	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 8000	88.7	89.1	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 7000	89.9	90.3	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 6000	92.3	92.7	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 5000	95.1	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 4500	95.1	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 4000	96.0	96.8	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 3500	96.4	97.2	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 3000	96.8	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2500	97.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 2000	97.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1800	97.2	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 700	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	97.6	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 247



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ

70,73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	71.8	72.7	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 20000	77.1	77.9	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 18000	77.6	78.4	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 16000	77.7	78.6	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 14000	78.6	79.7	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 12000	81.2	82.3	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 10000	84.2	85.3	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 9000	84.3	85.4	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 8000	85.3	86.4	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 7000	86.3	87.4	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 6000	89.5	90.6	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 5000	93.3	94.4	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 4500	93.8	94.9	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4000	95.1	96.4	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 3500	96.3	97.5	97.9	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3000	96.9	98.3	98.9	98.9	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2500	97.1	98.5	99.1	99.1	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 2000	97.1	98.5	99.1	99.1	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1800	97.1	98.5	99.1	99.1	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500	97.3	98.6	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	97.3	98.6	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.4	98.8	99.4	99.4	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 802



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

214  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

9900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	69.9	70.6	70.9	70.9	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 20000	77.1	77.8	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 18000	77.6	78.4	78.6	78.6	78.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 16000	78.7	78.7	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 14000	79.2	80.2	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 12000	81.4	82.4	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 10000	84.5	85.5	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 9000	84.9	85.9	86.1	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 8000	86.0	87.0	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 7000	87.7	88.0	88.2	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 6000	89.5	90.5	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 5000	92.0	93.2	93.4	93.4	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 4500	92.7	93.9	94.1	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 4000	94.2	95.5	95.8	95.8	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500	96.1	97.4	97.7	97.7	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 3000	97.1	98.6	98.9	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2500	97.1	98.6	98.9	98.9	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 2000	97.2	98.8	99.1	99.1	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800	97.2	98.8	99.1	99.1	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500	97.2	98.8	99.1	99.1	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.3	98.9	99.2	99.2	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 20000	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 18000	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 16000	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 14000	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 12000	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 10000	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 9000	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 8000	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 7000	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 6000	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000	90.3	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 4500	91.1	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 4000	94.1	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 3500	96.2	97.1	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 3000	97.3	98.4	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 2500	97.5	98.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 2000	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	97.7	98.8	99.0	99.1	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.7	98.9	99.1	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATTN: WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	68.5	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 20000	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
IV 18000	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 16000	78.7	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 14000	80.2	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 12000	81.7	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 10000	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 9000	85.0	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 8000	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 7000	87.5	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 6000	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 5000	94.5	95.4	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 4500	94.6	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 4000	95.8	96.7	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 3500	96.7	97.8	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 3000	97.3	98.4	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 2500	97.4	98.5	98.8	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 2000	97.5	98.6	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1800	97.5	98.6	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 1500	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	97.7	98.8	99.3	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 554



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	72.5	73.5	73.7	73.7	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 20000	78.5	79.5	79.8	79.8	79.9	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 18000	79.5	80.5	80.8	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 16000	79.6	80.6	80.9	80.9	81.0	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 14000	81.2	82.2	82.4	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 12000	82.3	83.3	83.6	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 10000	84.4	85.4	85.7	85.7	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 9000	84.8	85.8	86.1	86.1	86.2	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 8000	85.8	86.8	87.1	87.1	87.2	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 7000	87.4	88.3	88.6	88.6	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 6000	89.9	90.9	91.2	91.2	91.4	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 5000	94.2	95.4	95.8	95.8	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4500	94.5	95.6	96.1	96.1	96.3	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 4000	95.2	96.3	96.8	96.8	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 3500	96.6	97.8	98.2	98.2	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 3000	97.1	98.5	98.9	98.9	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 2500	97.1	98.5	98.9	98.9	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 2000	97.3	98.7	99.2	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1800	97.3	98.7	99.2	99.2	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1500	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.5	98.9	99.3	99.3	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 712

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1974  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 20000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IN 18000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IN 16000	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IN 14000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IN 12000	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IN 10000	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IN 9000	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IN 8000	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IN 7000	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IN 6000	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 5000	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IN 4500	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IN 4000	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IN 3500	98.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IN 3000	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2500	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2000	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1800	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1500	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1200	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1000	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 900	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 800	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 700	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 342

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2  
USAF CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	70.6	71.2	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 20000	77.4	78.0	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 18000	78.2	78.8	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 16000	78.5	79.1	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 14000	79.9	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
IV 12000	81.8	82.4	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 10000	84.7	85.3	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
IV 9000	85.7	85.7	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 8000	86.0	86.7	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 7000	87.1	87.8	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 6000	89.7	90.5	90.7	90.7	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
IV 5000	93.2	94.1	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 4500	93.7	94.6	94.8	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 4000	95.1	96.2	96.5	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 3500	96.5	97.6	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 3000	97.2	98.5	98.9	98.9	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 2500	97.4	98.6	99.0	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 2000	97.5	98.8	99.2	99.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1800	97.5	98.8	99.2	99.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1500	97.6	98.9	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1200	97.6	98.9	99.3	99.3	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	97.6	98.9	99.3	99.4	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4817



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ

70, 73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 20000	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 18000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 16000	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 14000	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 12000	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 10000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 9000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 8000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 7000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 6000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 5000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 4500	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 242



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 20000	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV ≥ 18000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV ≥ 16000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV ≥ 14000	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV ≥ 12000	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV ≥ 10000	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV ≥ 9000	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV ≥ 8000	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV ≥ 7000	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV ≥ 6000	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV ≥ 5000	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV ≥ 4500	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV ≥ 4000	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV ≥ 3500	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV ≥ 3000	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 2500	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 2000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 1800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 1500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 1200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 1000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 900	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 700	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 600	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 781

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 124  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 20000	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 18000	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 16000	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 14000	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV 12000	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 10000	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 9000	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 8000	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 7000	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 6000	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 5000	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 4500	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 4000	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 3500	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 3000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2  
2104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

APP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.M.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 20000	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 18000	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 16000	90.4	90.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 14000	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 12000	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 10000	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 9000	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 8000	94.8	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 7000	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 6000	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 5000	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 4500	98.4	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 4000	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 3500	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 3000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1974

WILLIAMS AFB AZ

70, 73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	81.6	82.1	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 20000	87.2	87.7	87.8	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IN 18000	87.4	87.8	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IN 16000	87.6	88.1	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IN 14000	88.7	89.2	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IN 12000	90.4	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IN 10000	92.8	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IN 9000	92.8	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IN 8000	94.3	94.8	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IN 7000	95.2	95.7	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IN 6000	96.5	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IN 5000	97.5	98.0	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IN 4500	98.3	98.8	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 4000	98.8	99.3	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IN 3500	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 3000	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2500	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2000	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1800	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1500	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1200	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1000	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 900	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 800	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 700	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	99.0	99.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 831

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2004

WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	82.7	82.9	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 20000	88.7	88.8	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IN 18000	88.8	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IN 16000	88.8	89.0	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IN 14000	89.8	89.9	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IN 12000	91.1	91.2	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IN 10000	93.5	93.6	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IN 9000	93.9	94.1	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IN 8000	94.3	94.5	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IN 7000	95.0	95.2	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IN 6000	95.8	95.9	96.2	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IN 5000	97.7	98.3	98.7	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IN 4500	98.2	98.7	99.2	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IN 4000	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 3500	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 3000	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2500	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2000	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1800	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1500	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1200	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1000	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 900	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 800	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 700	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	98.4	99.0	99.4	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 706



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2  
1  
2014  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 20000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 18000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 16000	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 14000	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 12000	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 10000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 9000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 7000	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 6000	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 5000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 346

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1974

WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	85.1	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
IV 18000	89.6	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
IV 16000	89.7	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 14000	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 12000	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 10000	94.1	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 9000	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 8000	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 7000	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 6000	96.7	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 5000	98.4	98.7	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 4500	98.7	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 4000	99.2	99.5	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 3500	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 3000	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.4	99.7	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.4	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4706

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

214

WILLIAMS AFB AZ

70,73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING ≥ 20000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 18000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 16000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 14000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 12000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 10000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 9000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 8000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 7000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 6000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 241



2  
JUNIOR CLIMATOLOGY BRANCH  
AFETAC  
47 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3	87.7 92.3
≥ 18000 ≥ 16000	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7	92.7 92.7
≥ 14000 ≥ 12000	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5	94.1 95.5
≥ 10000 ≥ 9000	97.8 97.7	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0
≥ 8000 ≥ 7000	97.8 98.2	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5
≥ 6000 ≥ 5000	99.4 99.7	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0	99.6 100.0
≥ 4500 ≥ 4000	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 3500 ≥ 3000	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2500 ≥ 2000	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800 ≥ 1500	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200 ≥ 1000	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900 ≥ 800	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700 ≥ 600	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500 ≥ 400	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 ≥ 200	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 ≥ 0	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 79



GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS

2 14  
 STATION

WILLIAMS AFB AZ

70,73-81

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY STATUTE MILES													
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0
NO CEILING	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 20000	94.3	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 18000	94.8	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 16000	94.8	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 14000	95.4	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 12000	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 10000	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 9000	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 8000	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 7000	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 6000	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 5000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4000	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

24

WILLIAMS AFB AZ

70,73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	67.1	87.1	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 20000	92.9	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 18000	94.1	94.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 16000	94.3	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 14000	94.3	95.1	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 12000	96.1	96.3	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 10000	96.3	96.4	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 9000	96.4	96.5	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000	96.6	96.7	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 7000	97.1	97.1	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 6000	98.3	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 5000	99.2	99.3	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 4500	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 907



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	84.4	84.5	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 20000	21.3	92.0	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4
≥ 18000	22.4	92.6	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0
≥ 16000	93.1	93.2	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6	93.6
≥ 14000	93.5	93.6	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1
≥ 12000	94.6	94.7	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2
≥ 10000	95.3	95.4	95.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9
≥ 8000	95.6	95.7	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.2	96.2
≥ 6000	95.9	96.0	96.0	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.5	96.5
≥ 4000	96.2	96.3	96.3	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.8
≥ 2000	98.3	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
≥ 1000	99.3	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8
≥ 800	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 600	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 400	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 200	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 100	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 0	99.3	99.5	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 834



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 0	≥ 0.1	≥ 0.2	≥ 0.3	≥ 0.4	≥ 0.5	≥ 0.6	≥ 0.7	≥ 0.8	≥ 0.9	≥ 1.0	≥ 1.2	≥ 1.4	≥ 1.6	≥ 2.0	≥ 2.5
≥ 20000	79.9	80.0	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 18000	89.1	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 16000	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 14000	90.9	90.9	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 12000	92.7	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 10000	94.4	94.4	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 8000	95.1	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 6000	95.5	95.5	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 4000	98.3	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 716



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 18000 ≥ 6000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 14000 ≥ 2000	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 10000 ≥ 9500	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 8000 ≥ 7000	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 6000 ≥ 5000	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4500 ≥ 4000	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 3500 ≥ 3000	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 2500 ≥ 2000	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1800 ≥ 1500	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 1200 ≥ 1000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900 ≥ 800	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 387



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

70.7-81  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	86.1	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 20000	92.2	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 18000	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 16000	93.1	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 14000	93.9	94.1	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 12000	95.3	95.4	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 10000	96.5	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 9000	96.6	96.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 8000	97.1	97.1	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 7000	97.3	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7
≥ 6000	98.3	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 5000	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥ 4500	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1600	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1400	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4775



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.G.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 20000	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 18000	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 16000	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 14000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 12000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 238



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1974  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 20000	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 18000	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 16000	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 14000	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 12000	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 10000	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 9000	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 8000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 7000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 6000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 773



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1964  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 20000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 18000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 16000	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 14000	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 12000	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 194  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 20000	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 18000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 16000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 14000	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 12000	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 10000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 9000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 8000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 7000	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ

69-70,73-80

JUN

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 20000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 18000	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 16000	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 14000	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 12000	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 10000	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 9000	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 8000	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 7000	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 6000	99.5	99.5	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 5000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 4500	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 4000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 3500	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 3000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 2500	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 2000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 1800	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 1500	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 1200	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 1000	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 900	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 800	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 700	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 600	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 500	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	99.6	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 829



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ

69-70,73-80

JUN

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 20000	94.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 18000	94.1	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 16000	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 14000	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 12000	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 10000	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 9000	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 7000	97.3	97.7	97.9	97.9	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 6000	97.9	98.7	99.0	99.0	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
≥ 5000	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 4500	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 4000	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 3500	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 3000	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 2500	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 2000	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 1800	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 1500	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 1200	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 1000	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 900	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 800	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 700	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 600	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 500	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 400	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 300	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 200	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 100	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0
≥ 0	98.3	99.1	99.4	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 696

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1974

WILLIAMS AFB AZ

69-71, 73-80

JUN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 20000	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 18000	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 16000	94.5	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 14000	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 12000	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 10000	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 9000	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 8000	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 7000	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 6000	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 5000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1600	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1400	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 401

USAF ETAC FORM 0-14-5 (OL A) JUL 66 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIB

2 1974  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY: STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8
NO CEILING	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 20000	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 18000	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 16000	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 14000	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 12000	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 10000	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 9000	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 8000	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 7000	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 6000	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥ 5000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 4500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 4000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 3500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 3000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 2500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 2000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 1800	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 1500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 1200	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 1000	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 900	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 800	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 700	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 600	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 500	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 400	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 300	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 200	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 100	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
≥ 0	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS



AD-A110 246

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/8 4/2  
WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(U)  
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USAFETAC/DS-81/096

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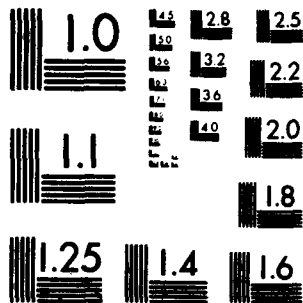
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2  
2014

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES:															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 20000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 18000	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 16000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 14000	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 12000	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 10000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 9000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 8000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 7000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 245



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 20000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 18000	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 16000	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 14000	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 12000	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 10000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 9000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 8000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 7000	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 784

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 20000	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 18000	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 16000	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 14000	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 12000	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 10000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 9000	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 8000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 7000	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 974



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 104

WILLIAMS AFB AZ

69-70, 73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 20000	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 18000	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 16000	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 14000	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 12000	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 10000	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 9000	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 8000	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 7000	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 6000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 906

USAF ETAC FORM 0-14-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2114

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 20000	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 18000	91.3	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 16000	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 14000	94.8	94.9	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 12000	97.4	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 10000	97.9	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 9000	97.9	98.0	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 8000	98.1	98.2	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 7000	98.9	99.0	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 6000	99.2	99.3	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 5000	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	99.3	99.4	99.5	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 841



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2114

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	64.3	64.5	64.6	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 20000	77.4	77.6	77.7	77.7	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 18000	78.4	78.6	78.7	78.7	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 16000	79.1	79.2	79.4	79.4	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 14000	84.4	84.5	84.7	84.7	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 12000	91.5	91.8	92.1	92.1	92.5	92.6	92.8	92.8	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 10000	92.1	92.3	92.6	92.6	93.2	93.3	93.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 9000	92.1	92.3	92.6	92.6	93.2	93.3	93.5	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 8000	92.3	92.6	92.9	92.9	93.5	93.6	93.7	93.7	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 7000	94.0	94.4	94.8	94.8	95.5	95.7	95.8	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 6000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.4	97.9	98.6	98.6	99.3	99.4	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 718

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 104

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	64.9	64.9	64.9	64.9	64.9	64.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 20000	76.3	76.5	76.5	76.5	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 18000	76.5	76.8	76.8	76.8	76.8	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 16000	77.2	77.3	77.3	77.3	77.3	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 14000	83.5	83.7	83.7	83.7	83.7	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
IV 12000	92.1	92.8	92.8	92.8	92.8	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 10000	94.1	94.8	94.8	94.8	94.8	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 9000	94.1	94.8	94.8	94.8	94.8	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 8000	94.8	95.6	95.6	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 7000	95.8	96.5	96.5	96.5	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 6000	98.3	99.0	99.0	99.0	99.0	99.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 5000	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	98.5	99.5	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 405



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 104

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURE (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 20000	82.5	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 18000	83.1	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 16000	84.1	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 14000	89.7	89.8	89.8	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 12000	96.8	96.9	96.9	96.9	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 10000	97.5	97.6	97.7	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 9000	97.5	97.6	97.7	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 8000	97.7	97.8	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 7000	98.1	98.4	98.5	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 6000	99.3	99.5	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 5000	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.3	99.5	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4803



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## CEILING VERSUS VISIBILITY

2  
2014

WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 20000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 18000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 16000	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 14000	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 12000	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

247



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	83.3	83.3	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 20000	86.6	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 18000	86.8	86.8	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 16000	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 14000	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 12000	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 10000	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 9000	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 8000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 798



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2  
2 4  
STATION

WILLIAMS AFB AZ

69-70,73-80

AUG

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1960-1969  
MONTH  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 20000	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 18000	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
IV 16000	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 14000	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 12000	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 10000	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 9000	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 8000	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 7000	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 6000	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 5000	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4500	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4000	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 3500	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 3000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 928



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 20000	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 18000	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 16000	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 14000	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 12000	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 10000	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 9000	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 8000	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 7000	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 6000	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 5000	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4500	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 93



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

214  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	90.5	93.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 20000	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 18000	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 16000	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 14000	97.1	97.2	97.2	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 12000	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 10000	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 9000	98.6	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 8000	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 7000	99.1	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 6000	99.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 5000	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4500	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4000	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 3500	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 3000	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 2500	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 2000	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1800	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1500	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1200	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 900	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 800	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 700	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 600	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 300	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 260



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2  
2014  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES:															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	74.2	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 20000	84.9	84.7	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 18000	84.9	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 16000	84.9	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 14000	89.9	90.2	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.6
≥ 12000	95.0	95.3	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7
≥ 10000	96.0	96.3	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.7
≥ 9000	96.1	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.8
≥ 8000	96.7	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.4
≥ 7000	97.4	97.8	97.9	98.1	98.3	98.3	98.3	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.8
≥ 6000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 5000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 4500	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 4000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 3500	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 3000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 2500	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 2000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 1800	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 1500	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 1200	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 1000	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 900	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 800	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 700	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 600	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 500	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 400	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 300	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 200	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	98.2	98.6	98.8	98.9	99.4	99.4	99.4	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 721



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	75.1	75.1	75.1	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 20000	82.5	82.5	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 18000	82.5	82.5	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 16000	82.5	82.5	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 14000	87.3	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 12000	91.5	91.8	91.8	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 10000	94.4	95.0	95.0	95.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 9000	95.0	95.5	95.5	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 8000	95.5	96.0	96.0	96.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 7000	96.6	97.1	97.1	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 6000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.7	99.2	99.2	99.2	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 378



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 20000	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 18000	89.3	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 16000	89.5	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 14000	93.3	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6
IV 12000	97.5	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 10000	98.4	98.5	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 9000	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 8000	98.8	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 7000	99.1	99.2	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 6000	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 5000	99.4	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4500	99.4	99.6	99.6	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 4000	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 3500	99.5	99.6	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 3000	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.5	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4862



2  
GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2014  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥20000	90.2	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥18000	90.2	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥16000	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥14000	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥12000	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥10000	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥9000	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥8000	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥7000	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥6000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥5000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥4500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥4000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥3500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥3000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥2500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥2000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥1000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥900	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥700	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥600	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 225



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	81.1	81.2	81.2
≥ 20000	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	83.0	83.1	83.2	83.2
≥ 18000	83.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.7	83.8	83.8
≥ 16000	83.2	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.9	84.1	84.1
≥ 14000	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.3	88.4	88.6	88.6
≥ 12000	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.5	95.6	95.6
≥ 10000	96.6	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.5	97.7	97.7
≥ 9000	96.6	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.5	97.7	97.7
≥ 8000	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.7	97.8	97.8
≥ 7000	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.4	98.5	98.5
≥ 6000	98.5	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.5	99.6	99.6
≥ 5000	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.7	99.7
≥ 4500	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.7	99.7
≥ 4000	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.7	99.7
≥ 3500	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.7	99.7
≥ 3000	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 2500	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 2000	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 1800	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 1500	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 1200	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 1000	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 900	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 800	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 700	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 600	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 500	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 400	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 300	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 200	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 100	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0
≥ 0	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 734



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	85.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4
IV 18000	87.3	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.8	87.8	87.8	87.8	87.8	87.8
IV 16000	88.1	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6
IV 14000	88.7	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1
IV 12000	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5
IV 10000	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
IV 9000	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
IV 8000	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
IV 7000	97.8	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
IV 6000	97.8	98.1	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
IV 5000	98.3	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 4500	98.6	99.1	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
IV 4000	98.6	99.1	99.5	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 3500	98.6	99.1	99.5	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 3000	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	98.6	99.1	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 874



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1.4

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 20000	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 18000	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 16000	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 14000	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 12000	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 10000	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 9000	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 8000	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 7000	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 6000	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 5000	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4500	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 4000	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3500	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 3000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 876



GLOBAL CLIMATOLOGY BRANCH  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2114  
 STATION

WILLIAMS AFB AZ  
 STATION NAME

69-70,73-80  
 YEARS

SEP  
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1500-1700  
 HOURS (L.A.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 20000	90.0	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4
IV 18000	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 16000	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 14000	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 12000	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.4	96.6	96.6	96.6	96.6
IV 10000	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.5	97.5	97.5	97.5
IV 9000	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.4	97.4	97.4	97.6	97.6	97.6	97.6
IV 8000	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	98.0	98.0	98.0	98.0
IV 7000	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.6	98.6	98.6	98.6
IV 6000	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.6	99.6	99.7	99.7
IV 5000	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.2	99.2	99.2	99.6	99.6	99.7	99.7
IV 4500	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.4	99.4	99.4	99.7	99.7	99.9	99.9
IV 4000	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 3500	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 3000	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 2500	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 2000	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 1800	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 1500	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 1200	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 1000	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 900	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 800	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 700	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 600	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 500	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 400	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 300	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 200	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 100	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0
IV 0	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 799



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 104

WILLIAMS AFB AZ

69-70,73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	80.2	80.5	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 20000	85.6	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.2	86.2	86.2
IV ≥ 18000	85.9	86.2	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.7	86.7	86.7
IV 16000	85.9	86.2	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.7	86.7	86.7
IV 14000	88.5	89.0	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.4	89.4	89.4
IV 12000	93.4	94.0	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.5	94.5	94.5
IV 10000	94.6	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7
IV 9000	94.6	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7
IV 8000	94.6	95.2	95.4	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.7	95.7	95.7
IV 7000	95.2	95.9	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.5	96.5	96.5
IV 6000	97.7	98.5	98.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4	99.4	99.5	99.5	99.5
IV 5000	98.1	98.8	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8
IV 4500	98.1	98.8	98.9	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8
IV 4000	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 3500	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 3000	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 2500	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 2000	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 1800	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 1500	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 1200	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 1000	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 900	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 800	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 700	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 600	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 500	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 400	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 300	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 200	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 100	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0
IV 0	98.2	98.9	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 652



GLOBAL CLIMATOLOGY BRANCH  
SAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1 4

WILLIAMS AFB AZ

69-70,73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	79.9 86.1	80.3 86.4	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7	80.3 86.7
≥ 18000 ≥ 16000	86.1 86.1	86.4 86.4	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7	86.7 86.7
≥ 14000 ≥ 12000	88.0 93.9	88.3 94.2	88.7 94.5	88.7 94.5	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8	89.0 94.8
≥ 10000 ≥ 9000	94.5 94.5	94.8 94.8	95.1 95.1	95.1 95.1	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5	95.5 95.5
≥ 8000 ≥ 7000	94.8 95.5	95.1 95.8	95.5 96.1	95.5 96.1	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4	95.8 96.4
≥ 6000 ≥ 5000	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 4500 ≥ 4000	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 3500 ≥ 3000	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2500 ≥ 2000	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800 ≥ 1500	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200 ≥ 1000	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900 ≥ 800	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700 ≥ 600	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500 ≥ 400	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 ≥ 200	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 0	98.7 98.7	99.0 99.0	99.4 99.4	99.4 99.4	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	99.7 99.7	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 309



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174

WILLIAMS AFB AZ

69-70,73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	84.4	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8
≥ 20000	87.6	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1
≥ 18000	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.6	88.6	88.6
≥ 16000	88.4	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 14000	90.8	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4
≥ 12000	95.5	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1	96.2	96.2
≥ 10000	96.6	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.3	97.3	97.3
≥ 9000	96.6	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.4	97.4
≥ 8000	97.0	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.8	97.8	97.8
≥ 7000	97.4	97.9	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2
≥ 6000	98.6	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.7	99.7
≥ 5000	98.7	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8
≥ 4500	98.8	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.7	99.8	99.8	99.8
≥ 4000	98.8	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.9	99.9
≥ 3500	98.8	99.3	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.8	99.9	99.9
≥ 3000	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 2500	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 2000	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 1800	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 1500	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 1200	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 1000	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 900	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 800	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 700	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 600	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 500	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 400	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 300	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 200	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 100	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0
≥ 0	98.8	99.4	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4469



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 20000	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 18000	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 16000	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 14000	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 12000	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 10000	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 9000	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 8000	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 7000	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 6000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 235

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ATTN: WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	85.7 87.9	86.1 88.3	86.2 88.6	86.5 88.8	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9	86.6 88.9
≥ 18000 ≥ 16000	88.2 88.2	88.6 88.6	88.8 88.8	89.1 89.1	89.2 89.2	89.2 89.2	89.2 89.2	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3	89.2 89.3
≥ 14000 ≥ 12000	89.5 93.5	89.9 93.9	90.2 94.3	90.5 94.5	90.6 94.7	90.6 94.7	90.6 94.7	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8	90.8 94.8
≥ 10000 ≥ 9000	94.7 94.9	95.1 95.3	95.6 95.8	95.8 96.1	96.0 96.2	96.0 96.2	96.0 96.2	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4	96.1 96.4
≥ 8000 ≥ 7000	95.4 96.2	95.8 96.6	96.4 97.1	96.6 97.4	96.7 97.5	96.7 97.5	96.7 97.5	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7	96.9 97.7
≥ 6000 ≥ 5000	97.4 97.9	97.8 98.3	98.3 98.8	98.6 99.1	98.7 99.2	98.7 99.2	98.7 99.2	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3
≥ 4500 ≥ 4000	98.0 98.2	98.4 98.6	99.0 99.1	99.3 99.5	99.5 99.6	99.5 99.6	99.5 99.6	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7	99.6 99.7
≥ 3500 ≥ 3000	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 2500 ≥ 2000	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 1800 ≥ 1500	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 1200 ≥ 1000	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 900 ≥ 800	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 700 ≥ 600	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 500 ≥ 400	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 300 ≥ 200	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 100 0	98.3 98.3	98.7 98.7	99.2 99.2	99.6 99.6	99.7 99.7	99.7 99.7	99.7 99.7	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9

TOTAL NUMBER OF OBSERVATIONS 769



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING ≥ 20000	85.1	85.5	85.6	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 18000	87.5	87.8	87.9	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 16000	87.6	87.9	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
IV 14000	87.9	88.2	88.4	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 12000	88.9	89.4	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 10000	92.7	93.1	93.3	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 9000	94.3	94.8	95.0	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 8000	94.3	94.8	95.0	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 7000	94.8	95.3	95.6	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 6000	95.9	96.0	96.2	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 5000	97.7	97.6	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 4500	98.0	98.6	98.8	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 4000	98.1	98.6	98.8	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 3500	98.1	98.7	99.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 3000	98.1	98.7	99.0	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 2500	98.2	98.8	99.1	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 2000	98.2	98.9	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1800	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	98.2	98.9	99.2	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 902



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFS WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2004  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV ≥ 18000	89.6	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 16000	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 14000	91.1	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 12000	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 10000	95.7	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 9500	95.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 8000	96.0	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 7000	96.5	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 6000	97.8	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 5000	98.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 4500	98.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 4000	98.3	99.3	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 3500	98.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 3000	98.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 2500	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	98.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 903



GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 14  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 20000	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 18000	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 16000	91.8	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 14000	92.4	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 12000	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 10000	96.8	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 9000	96.8	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 8000	97.2	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 7000	97.9	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7	98.7
IV 6000	98.4	99.0	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4
IV 5000	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 4500	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 4000	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 3500	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 3000	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 2500	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 2000	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 1800	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 1500	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 1200	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 1000	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 900	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 800	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 700	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 600	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 500	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 400	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 300	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 200	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
IV 100	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
0	99.0	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 820



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

69-70, 73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	88.2	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 18000	93.1	93.2	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 16000	93.1	93.2	93.2	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 14000	94.1	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 12000	95.9	96.0	96.0	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 10000	97.2	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 9000	97.2	97.6	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 8000	97.6	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 7000	98.1	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 6000	98.4	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 5000	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.1	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 682



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 20000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 18000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 16000	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 14000	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 12000	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 10000	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 9000	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 8000	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 7000	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 6000	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 5000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 312



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	86.3	86.6	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 20000	90.1	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 18000	90.2	90.5	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 16000	90.4	90.7	90.8	90.8	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 14000	91.4	91.7	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 12000	94.4	94.7	94.8	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 10000	95.9	96.3	96.4	96.5	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 9000	96.0	96.5	96.6	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000	96.4	97.0	97.2	97.3	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 7000	97.0	97.6	97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 6000	98.0	98.6	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 5000	98.5	99.2	99.3	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 4500	98.6	99.2	99.4	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 4000	98.6	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 3500	98.7	99.3	99.5	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9
≥ 3000	98.7	99.3	99.5	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 2500	98.7	99.4	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 2000	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	98.7	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4621

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2  
GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

69-70,73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	85.8	86.7	89.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 20000	89.4	90.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 18000	89.4	90.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 16000	89.4	90.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 14000	89.4	90.4	92.7	92.7	92.7	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 12000	91.7	92.7	95.0	95.0	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 10000	92.7	93.6	95.9	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 9000	92.7	93.6	95.9	95.9	95.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 8000	93.6	94.5	96.8	96.8	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 7000	94.0	95.0	97.2	97.2	97.2	97.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 6000	94.5	95.4	97.7	97.7	97.7	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 5000	95.9	96.8	99.1	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 4500	95.9	96.8	99.1	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 4000	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	96.3	97.2	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 218



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

21134  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	83.2	84.8	85.6	85.6	85.8	85.8	85.8	85.9	86.0	86.2	86.2	86.2	86.2	86.2	86.3	86.3
≥ 20000	86.6	88.2	89.0	89.0	89.2	89.2	89.2	89.3	89.5	89.6	89.6	89.6	89.6	89.6	89.7	89.7
≥ 18000	87.3	88.9	89.7	89.7	89.9	89.9	89.9	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.4	90.4
≥ 16000	87.4	89.0	89.9	89.9	90.0	90.0	90.0	90.1	90.3	90.4	90.4	90.4	90.4	90.4	90.5	90.5
≥ 14000	87.8	89.5	90.3	90.3	90.4	90.4	90.4	90.5	90.7	90.8	90.8	90.8	90.8	90.8	91.1	91.1
≥ 12000	89.7	91.4	92.2	92.2	92.5	92.5	92.5	92.6	92.7	92.9	92.9	92.9	92.9	92.9	93.2	93.2
≥ 10000	91.5	93.2	94.0	94.0	94.2	94.2	94.2	94.4	94.5	94.7	94.7	94.7	94.7	94.7	94.9	94.9
≥ 9000	91.6	93.3	94.1	94.1	94.4	94.4	94.4	94.5	94.7	94.8	94.8	94.8	94.8	94.8	95.1	95.1
≥ 8000	92.2	93.8	94.7	94.7	94.9	94.9	94.9	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.6	95.6
≥ 7000	92.9	94.7	95.5	95.5	95.8	95.8	95.8	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.4	96.4
≥ 6000	94.4	96.3	97.1	97.1	97.4	97.4	97.4	97.5	97.7	97.8	97.8	97.8	97.8	97.8	98.1	98.1
≥ 5000	95.5	97.4	98.2	98.2	98.5	98.5	98.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9	99.2	99.2
≥ 4500	95.5	97.4	98.2	98.2	98.5	98.5	98.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9	99.2	99.2
≥ 4000	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 3500	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 3000	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 2500	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 2000	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 1800	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 1500	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 1200	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 1000	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 900	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 800	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 700	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 600	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 500	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 400	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 300	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 200	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 100	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 0	95.9	97.8	98.6	98.6	98.8	98.8	98.8	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 730



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4 WILLIAMS AFB AZ

69-70,73-85

NCV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY: STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	79.3	81.2	82.1	81.3	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 20000	83.0	84.8	85.6	85.9	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 18000	83.7	85.5	86.3	86.6	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 16000	84.7	85.9	86.7	86.9	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 14000	85.8	87.6	88.4	88.7	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 12000	87.3	89.1	90.0	90.2	90.4	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 10000	89.4	91.2	92.1	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 9000	90.4	92.3	93.1	93.3	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 8000	91.0	93.1	93.9	94.2	94.4	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 7000	91.8	93.9	94.7	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 6000	93.9	96.1	96.8	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 5000	94.6	96.7	97.5	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 4500	94.6	96.7	97.5	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 4000	95.1	97.3	98.1	98.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 3500	95.1	97.3	98.1	98.4	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 3000	95.2	97.7	98.6	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 2500	95.2	97.7	98.6	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 2000	95.2	97.7	98.6	98.8	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 1800	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1600	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1400	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1200	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1000	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 900	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 800	95.3	97.8	98.7	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	95.3	97.8	98.8	99.2	99.5	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 857



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174

WILLIAMS AFB AZ

69-70, 73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	87.0	82.1	83.0	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV ≥ 18000	84.3	86.4	87.3	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
IV ≥ 16000	84.7	86.8	87.8	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV ≥ 14000	85.2	87.3	88.2	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV ≥ 12000	86.1	88.2	89.2	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV ≥ 10000	87.3	89.5	90.5	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV ≥ 9000	88.8	91.0	92.0	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV ≥ 8000	89.4	91.6	92.5	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IV ≥ 7000	90.2	92.4	93.4	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV ≥ 6000	91.4	93.6	94.5	95.1	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV ≥ 5000	92.8	95.0	95.9	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV ≥ 4500	93.5	95.7	96.6	97.2	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV ≥ 4000	93.8	96.6	97.6	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV ≥ 3500	93.9	96.7	97.7	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV ≥ 3000	94.9	97.7	98.6	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV ≥ 2500	94.9	97.7	98.6	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV ≥ 2000	95.0	97.8	98.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV ≥ 1800	95.0	97.8	98.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV ≥ 1500	95.0	97.8	98.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV ≥ 1200	95.0	97.8	98.7	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV ≥ 1000	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 900	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 800	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 700	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 600	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 500	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 400	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 300	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 200	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 100	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 0	95.0	97.9	98.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 659



GLOBAL CLIMATOLOGY BRANCH  
SAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING	83.1	82.4	82.9	83.3	83.4	83.4	83.8	83.8	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9
≥ 20000	85.1	87.4	87.9	88.3	88.4	88.4	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9
≥ 18000	85.5	87.8	88.3	88.7	88.8	88.8	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3
≥ 16000	85.7	88.0	88.5	88.9	89.0	89.0	89.4	89.4	89.4	89.4	89.4	89.6	89.6	89.6	89.6	89.6
≥ 14000	87.6	89.9	90.4	90.8	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.5	91.5	91.5
≥ 12000	89.6	92.0	92.5	92.9	93.0	93.0	93.4	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5
≥ 10000	90.2	92.6	93.1	93.5	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1
≥ 9000	90.3	92.7	93.2	93.6	93.8	93.8	94.1	94.1	94.1	94.1	94.1	94.3	94.3	94.3	94.3	94.3
≥ 8000	90.7	93.1	93.6	94.0	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6
≥ 7000	91.6	94.0	94.5	94.9	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5
≥ 6000	92.7	95.4	95.9	96.3	96.4	96.4	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9
≥ 5000	93.8	96.4	96.9	97.3	97.5	97.5	97.8	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0
IV 4500	93.9	96.6	97.1	97.5	97.6	97.6	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1
IV 4000	94.5	97.5	98.0	98.3	98.5	98.5	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
IV 3500	94.5	97.5	98.0	98.3	98.5	98.5	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0
IV 3000	95.2	98.2	98.7	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 2500	95.2	98.2	98.7	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 2000	95.2	98.3	98.9	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9
≥ 1800	95.2	98.3	98.9	99.2	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9
≥ 1500	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 1200	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 1000	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 900	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 800	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 700	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 600	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 500	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 400	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 300	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 200	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 100	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
IV 0	95.2	98.5	99.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 785



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

21174  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥¼
NO CEILING ≥ 20000	85.6 87.7	86.8 88.9	88.7 90.1	88.2 90.3	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1	89.0 91.1
≥ 18000 IV 16000	88.5 88.0	89.2 89.2	90.5 90.5	90.6 90.6	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4	91.4 91.4
≥ 14000 IV 12000	90.0 91.3	91.1 92.4	92.4 93.7	92.6 93.9	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7	93.4 94.7
≥ 10000 IV 9000	92.1 92.7	93.2 93.9	94.5 95.2	94.7 95.3	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1	95.5 96.1
≥ 8000 IV 7000	93.1 93.1	94.2 94.2	95.5 95.5	95.6 95.6	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4	96.4 96.4
≥ 6000 IV 5000	93.9 94.8	95.2 96.1	96.8 97.7	96.9 97.9	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7	97.7 98.7
≥ 4500 IV 4000	94.8 95.3	96.4 96.9	98.1 98.5	98.2 98.7	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5	99.0 99.5
≥ 3500 IV 3000	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2500 IV 2000	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800 IV 1500	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200 IV 1000	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900 IV 800	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700 IV 600	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500 IV 400	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 IV 200	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 IV 0	95.6 95.6	97.4 97.4	99.0 99.0	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 619



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## CEILING VERSUS VISIBILITY

2 4 WILLIAMS AFB AZ

69-70,73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	88.7 89.5	89.5 90.3	91.9 92.7	91.9 92.7	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9	93.1 93.9
≥ 18000 ≥ 16000	89.9 89.9	90.7 90.7	93.1 93.1	93.1 93.1	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3	94.3 94.3
≥ 14000 ≥ 12000	91.1 91.9	91.9 92.7	94.3 95.1	94.3 95.1	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4
≥ 10000 ≥ 9000	91.9 92.3	92.7 93.1	95.1 95.5	95.1 95.5	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8	96.4 96.8
≥ 8000 ≥ 7000	93.5 93.5	94.3 94.3	96.8 96.8	96.8 96.8	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0	98.0 98.0
≥ 6000 ≥ 5000	93.9 94.7	94.7 95.5	97.2 98.0	97.2 98.0	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2	98.4 99.2
≥ 4500 ≥ 4000	94.7 95.1	95.5 96.0	98.0 98.4	98.0 98.4	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6	99.2 99.6
≥ 3500 ≥ 3000	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 2500 ≥ 2000	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1800 ≥ 1500	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 1200 ≥ 1000	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 900 ≥ 800	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 700 ≥ 600	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 500 ≥ 400	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 ≥ 200	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 ≥ 0	95.1 95.1	96.4 96.4	98.8 98.8	98.8 98.8	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 247



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0
NO CEILING	82.0	83.8	84.8	85.0	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.6	85.6	85.6	85.6
≥ 20000	85.6	87.3	88.4	88.6	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.2	89.2
≥ 18000	85.1	87.8	88.9	89.1	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.7
≥ 16000	86.3	88.1	89.1	89.3	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9
≥ 14000	87.6	89.4	90.4	90.6	91.0	91.0	91.1	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2
≥ 12000	89.2	91.0	92.0	92.2	92.6	92.6	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.9
≥ 10000	90.5	92.3	93.3	93.5	93.9	93.9	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.2
≥ 9000	91.7	92.7	93.8	94.0	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 8000	91.9	93.4	94.4	94.7	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.3
≥ 7000	92.3	94.1	95.1	95.4	95.8	95.8	95.9	95.9	95.9	95.9	95.9	96.0	96.0	96.0	96.0
≥ 6000	93.6	95.5	96.6	96.8	97.2	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
≥ 5000	94.5	96.4	97.5	97.8	98.1	98.1	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.4
≥ 4500	94.5	96.5	97.6	97.8	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 4000	94.9	97.1	98.2	98.5	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
≥ 3500	95.1	97.3	98.3	98.6	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.3
≥ 3000	95.4	97.7	98.7	99.0	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2500	95.4	97.7	98.7	99.0	99.5	99.5	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
≥ 2000	95.4	97.7	98.8	99.1	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8
≥ 1800	95.4	97.7	98.8	99.1	99.5	99.5	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1500	95.4	97.8	98.8	99.1	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	95.4	97.8	98.8	99.1	99.6	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0
≥ 1000	95.4	97.8	98.9	99.2	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 900	95.4	97.8	98.9	99.2	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 800	95.4	97.8	98.9	99.2	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
≥ 700	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 600	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 500	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	95.4	97.8	98.9	99.2	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 4315



2  
GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1300-1500  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	84.8	85.3	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 20000	87.7	87.5	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 18000	87.5	87.5	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 16000	87.5	88.0	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 14000	88.7	88.6	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 12000	89.1	89.7	90.2	90.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 10000	91.8	92.4	92.9	92.9	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 9000	91.8	92.4	92.9	92.9	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 8000	92.4	92.9	93.5	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 7000	92.9	93.5	94.0	94.0	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 6000	94.6	95.1	95.7	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 5000	94.6	95.1	95.7	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4500	94.6	95.1	95.7	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 4000	94.6	95.1	95.7	95.7	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 3500	95.1	95.7	96.2	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 3000	96.2	96.7	97.3	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2500	96.7	97.3	97.8	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1200	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1000	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 400	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.5
≥ 200	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.5
≥ 100	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.5	100.0
≥ 0	96.7	97.8	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 184



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ADH WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-0800  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥5/16	≥¼	≥0
NO CEILING	77.2	78.6	79.1	79.2	79.5	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8	80.1
≥ 20000	81.2	82.7	83.1	83.3	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	84.1
≥ 18000	81.7	83.1	83.5	83.7	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.3	84.3	84.6
≥ 16000	82.1	83.5	84.0	84.1	84.4	84.4	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.7	84.7	85.0
≥ 14000	83.8	85.3	85.7	85.9	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.4	86.4	86.7
≥ 12000	85.4	87.0	87.4	87.6	88.0	88.0	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.3	88.3	88.6
≥ 10000	87.9	89.5	89.9	90.0	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.8	90.8	91.1
≥ 9000	88.3	89.9	90.5	90.8	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.5	91.5	91.8
≥ 8000	89.6	91.2	91.8	92.1	92.5	92.6	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.9	92.9	93.2
≥ 7000	90.0	91.6	92.2	92.5	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.4	93.4	93.7
≥ 6000	91.1	92.8	93.4	93.7	94.2	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.7	94.7	94.9
≥ 5000	91.3	93.4	93.9	94.2	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.4	95.4	95.7
≥ 4500	91.9	93.9	94.5	94.8	95.5	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	96.0	96.0	96.2
≥ 4000	92.4	94.4	94.9	95.2	96.0	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.4	96.4	96.7
≥ 3500	92.6	94.7	95.2	95.5	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.7	96.7	97.0
≥ 3000	93.2	95.2	95.8	96.1	97.0	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.4	97.7
≥ 2500	93.5	95.5	96.1	96.4	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.7	97.7	98.0
≥ 2000	93.8	96.0	96.5	96.8	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.6
≥ 1800	93.8	96.0	96.5	96.8	97.8	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.6
≥ 1500	93.8	96.0	96.5	96.8	97.8	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.4	98.4	98.7
≥ 1200	93.9	96.1	96.7	97.0	98.0	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.8
≥ 1000	93.9	96.1	96.7	97.0	98.0	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.8
≥ 900	93.9	96.1	96.7	97.0	98.0	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.6	98.6	98.8
≥ 800	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 700	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 600	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 500	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 400	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.0
≥ 300	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.1
≥ 200	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.4
≥ 100	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7	99.9
≥ 0	93.9	96.1	96.7	97.0	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 693



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 1 4

WILLIAMS AFB AZ

69-70,73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ⅓/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	74.6 78.4	76.9 80.6	77.6 81.3	77.9 81.7	78.3 82.0	78.3 82.0	78.4 82.1	78.5 82.3	78.5 82.3	78.5 82.3	78.5 82.3	78.5 82.3	78.5 82.3	78.5 82.3	78.6 82.4	78.6 82.4
≥ 18000 ≥ 16000	79.3 79.3	81.2 81.6	81.9 82.3	82.3 82.6	82.6 83.0	82.6 83.0	82.7 83.1	82.8 83.2	82.8 83.2	82.8 83.2	82.8 83.2	82.8 83.2	82.8 83.2	82.8 83.2	83.0 83.3	83.0 83.3
≥ 14000 ≥ 12000	82.3 83.8	84.3 86.0	85.3 86.7	85.4 87.2	85.8 87.5	85.8 87.5	85.9 87.7	86.0 87.8	86.0 87.8	86.0 87.8	86.0 87.8	86.0 87.8	86.0 87.8	86.0 87.8	86.1 87.9	86.1 87.9
≥ 10000 ≥ 9000	86.1 86.5	88.5 88.8	89.2 89.5	89.7 90.0	90.0 90.4	90.0 90.4	90.1 90.5	90.2 90.6	90.2 90.6	90.2 90.6	90.2 90.6	90.2 90.6	90.2 90.6	90.2 90.6	90.4 90.7	90.4 90.7
≥ 8000 ≥ 7000	87.9 88.1	90.1 90.7	90.8 91.4	91.3 91.9	91.7 92.2	91.7 92.2	91.8 92.4	91.9 92.5	91.9 92.5	91.9 92.5	91.9 92.5	91.9 92.5	91.9 92.5	91.9 92.5	92.0 92.6	92.0 92.6
≥ 6000 ≥ 5000	89.1 90.4	91.7 93.2	92.5 94.3	92.9 94.5	93.5 95.2	93.5 95.2	93.7 95.3	93.8 95.4	93.8 95.4	93.8 95.4	93.8 95.4	93.8 95.4	93.8 95.4	93.9 95.5	94.0 95.7	94.0 95.7
≥ 4500 ≥ 4000	90.5 91.1	93.3 93.9	94.1 94.7	94.6 95.2	95.3 96.1	95.3 96.1	95.4 96.2	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.5 96.4	95.7 96.5	95.8 96.6	95.8 96.6
≥ 3500 ≥ 3000	91.3 91.4	94.2 94.4	95.2 95.3	95.7 95.8	96.6 96.7	96.6 96.7	96.7 96.8	96.8 96.9	96.8 96.9	96.8 96.9	96.8 96.9	96.8 96.9	96.8 96.9	96.9 97.1	97.1 97.2	97.1 97.2
≥ 2500 ≥ 2000	91.7 91.8	94.6 95.1	95.5 96.2	96.0 96.7	96.9 97.8	96.9 97.8	97.1 97.9	97.2 98.0	97.3 98.1	97.3 98.1	97.3 98.1	97.3 98.1	97.3 98.1	97.4 98.2	97.5 98.4	97.5 98.4
≥ 1800 ≥ 1500	91.8 91.9	95.1 95.2	96.2 96.4	96.7 96.8	97.8 97.9	97.8 97.9	97.9 98.1	98.0 98.2	98.1 98.4	98.1 98.5	98.1 98.5	98.1 98.5	98.1 98.5	98.2 98.6	98.4 98.6	98.4 98.7
≥ 1200 ≥ 1000	92.1 92.1	95.3 95.5	96.5 96.7	96.9 97.2	98.1 98.4	98.1 98.4	98.4 98.6	98.5 98.7	98.6 98.8	98.7 98.9	98.7 98.9	98.7 98.9	98.7 98.9	98.8 99.1	98.8 99.2	98.9 99.2
≥ 900 ≥ 800	92.1 92.1	95.5 95.5	96.7 96.7	97.2 97.2	98.4 98.4	98.4 98.4	98.6 98.6	98.7 98.7	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	98.9 98.9	99.1 99.1	99.2 99.2	99.2 99.2
≥ 700 ≥ 600	92.0 92.0	95.5 95.5	96.7 96.7	97.2 97.2	98.4 98.4	98.4 98.4	98.6 98.6	98.7 98.7	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	98.9 98.9	99.1 99.1	99.2 99.2	99.2 99.2
≥ 500 ≥ 400	92.0 92.0	95.5 95.5	96.7 96.7	97.2 97.2	98.4 98.4	98.4 98.4	98.6 98.6	98.7 98.7	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	98.9 98.9	99.1 99.1	99.2 99.2	99.2 99.2
≥ 300 ≥ 200	92.0 92.0	95.5 95.5	96.7 96.7	97.2 97.2	98.4 98.4	98.4 98.4	98.6 98.6	98.7 98.7	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	98.9 98.9	99.1 99.2	99.2 99.6	99.2 99.6
≥ 100 0	92.1 92.1	95.5 95.5	96.7 96.7	97.2 97.2	98.4 98.4	98.4 98.4	98.6 98.6	98.7 98.7	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	98.9 98.9	99.2 99.2	99.6 99.6	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS 851



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

214  
STATION

WILLIAMS AFB AZ

69-70,73-80

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING ≥ 20000	74.7 78.7	77.6 81.6	77.8 81.8	78.2 82.4	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1	78.9 83.1
≥ 18000 ≥ 6000	79.1 80.0	82.2 83.0	82.4 83.2	83.0 83.8	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5	83.7 84.5
≥ 14000 ≥ 12000	82.4 83.7	85.5 86.8	85.7 87.0	86.4 87.7	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4	87.1 88.4
≥ 10000 ≥ 9000	86.0 87.1	89.3 90.4	89.6 90.6	90.3 91.3	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0	91.0 92.0
≥ 8000 ≥ 7000	87.6 88.2	91.0 91.6	91.2 91.8	91.9 92.5	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2	92.6 93.2
≥ 6000 ≥ 5000	89.6 91.0	93.0 94.5	93.2 94.7	93.9 95.4	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6	94.6 96.6
≥ 4500 ≥ 4000	91.2 91.9	94.7 95.4	95.0 95.7	95.7 96.4	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5	96.8 97.5
≥ 3500 ≥ 3000	91.9 92.4	95.7 96.5	95.9 96.8	96.6 97.5	97.8 98.7	97.8 98.7	97.8 98.7	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8	97.8 98.8
≥ 2500 ≥ 2000	92.4 92.5	96.5 96.7	96.8 97.1	97.5 97.8	98.7 99.2	98.7 99.2	98.7 99.2	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3	98.8 99.3
≥ 1800 ≥ 1500	92.5 92.5	96.7 97.0	97.1 97.3	97.8 98.0	99.2 99.4	99.2 99.4	99.2 99.4	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5	99.3 99.5
≥ 1200 ≥ 1000	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 900 ≥ 800	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 700 ≥ 600	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9	99.9 99.9
≥ 500 ≥ 400	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 300 ≥ 200	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
≥ 100 0	92.5 92.5	97.1 97.1	97.4 97.4	98.1 98.1	99.5 99.5	99.5 99.5	99.5 99.5	99.6 99.6	99.9 99.9	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 653



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

2 1 4

WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	75.7	80.5	80.6	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 20000	80.2	85.1	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 18000	80.9	85.8	85.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 16000	81.3	86.2	86.3	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 14000	84.3	89.1	89.4	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 12000	85.1	90.1	90.4	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 10000	87.4	92.4	92.7	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 9000	88.1	93.1	93.4	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 8000	88.6	93.6	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 7000	89.3	94.3	94.6	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 6000	89.7	94.7	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 5000	90.6	95.7	95.9	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 4500	91.2	96.2	96.5	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 4000	92.1	97.0	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 3500	92.4	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 3000	92.4	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2500	92.4	97.6	97.8	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 2000	92.8	98.0	98.4	98.6	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1800	92.8	98.0	98.4	98.6	98.9	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1500	93.2	98.4	98.8	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1200	93.2	98.4	98.8	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	93.2	98.4	98.8	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	93.2	98.4	98.8	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	93.2	98.4	98.8	99.1	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 737

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
ATC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174

WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING ≥ 20000	78.7 82.3	82.1 86.1	82.7 86.7	83.1 87.1	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3	83.3 87.3
IV 18000 IV 16000	82.9 83.5	86.7 87.3	87.3 88.0	87.8 88.4	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6	88.0 88.6
IV 14000 IV 12000	86.5 87.1	90.8 91.4	91.4 92.0	91.8 92.4	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6	92.0 92.6
IV 10000 IV 9000	89.4 89.4	93.6 93.6	94.2 94.2	94.6 94.6	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8	94.8 94.8
IV 8000 IV 7000	90.0 90.4	94.2 94.6	94.8 95.2	95.2 95.6	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8	95.4 95.8
IV 6000 IV 5000	91.4 92.1	95.6 96.2	96.2 96.8	96.6 97.2	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4	96.8 97.4
IV 4500 IV 4000	92.4 92.6	96.6 96.8	97.2 97.4	97.6 97.8	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0	97.8 98.0
IV 3500 IV 3000	93.4 93.6	97.6 97.8	98.2 98.4	98.6 98.8	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0	98.8 99.0
IV 2500 IV 2000	93.8 94.0	98.0 98.2	98.6 98.8	99.0 99.2	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4	99.2 99.4
IV 1800 IV 1500	94.0 94.1	98.2 98.2	98.8 98.8	99.2 99.2	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4	99.4 99.4
IV 1200 IV 1000	94.1 94.1	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 900 IV 800	94.1 94.1	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 700 IV 600	94.1 94.0	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 500 IV 400	94.0 94.0	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 300 IV 200	94.0 94.1	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0
IV 100 IV 0	94.1 94.0	98.2 98.2	98.8 98.8	99.2 99.2	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0

TOTAL NUMBER OF OBSERVATIONS 498



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	84.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 20000	86.4	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 18000	86.4	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 16000	86.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 14000	88.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 12000	90.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 10000	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 9000	93.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 8000	94.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 7000	94.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 6000	95.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 5000	95.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 4500	95.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 4000	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 3500	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 3000	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 2500	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 2000	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1800	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1500	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1200	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 900	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 800	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 700	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 600	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 400	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 300	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 200	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 100	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 0	95.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 221



2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 174

WILLIAMS AFB AZ

69-70,73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	76.8	79.6	80.0	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7
≥ 20000	80.6	83.5	83.8	84.2	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.7
≥ 18000	81.1	84.0	84.4	84.7	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2
≥ 16000	81.6	84.5	84.9	85.2	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7	85.7
≥ 14000	84.1	87.0	87.4	87.8	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.3
≥ 12000	85.3	88.3	88.7	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6
≥ 10000	87.6	90.7	91.2	91.5	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.1
≥ 9000	88.2	91.3	91.7	92.1	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.7
≥ 8000	89.0	92.1	92.6	93.0	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6
≥ 7000	89.5	92.7	93.1	93.5	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1
≥ 6000	90.5	93.7	94.2	94.6	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2
≥ 5000	91.4	94.7	95.1	95.5	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.4
≥ 4500	91.7	95.0	95.5	95.9	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.7
≥ 4000	92.2	95.6	96.0	96.4	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3
≥ 3500	92.5	96.0	96.5	96.9	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7
≥ 3000	92.8	96.3	96.9	97.3	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.2
≥ 2500	93.1	96.5	97.0	97.4	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.4
≥ 2000	93.2	96.8	97.4	97.8	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
≥ 1800	93.2	96.8	97.4	97.8	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9
≥ 1600	93.3	97.0	97.6	98.0	98.9	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.3	99.3	99.3
≥ 1400	93.3	97.1	97.6	98.0	99.0	99.1	99.1	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.5
≥ 1200	93.3	97.1	97.7	98.1	99.1	99.1	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5
≥ 1000	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 900	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 800	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 700	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 600	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 500	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 400	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 300	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.6
≥ 200	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.6	99.7
≥ 100	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.6	99.7
≥ 0	93.3	97.1	97.7	98.1	99.1	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.5	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 437



2  
GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFD WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2 194

WILLIAMS AFB AZ

69-70,73-81

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	80.5	81.2	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 20000	85.3	86.1	86.3	86.3	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 18000	85.8	86.6	86.8	86.8	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 16000	86.2	86.9	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4
IV 14000	88.4	89.1	89.3	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
IV 12000	91.1	91.9	92.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4
IV 10000	92.7	93.6	93.8	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1
IV 9000	93.1	93.9	94.1	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 8000	93.8	94.6	94.9	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2
IV 7000	94.3	95.2	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8
IV 6000	95.7	96.6	96.9	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3
IV 5000	96.3	97.8	98.0	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5	98.5
IV 4500	96.9	97.9	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 4000	97.3	98.3	98.6	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
IV 3500	97.5	98.6	98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 3000	97.7	98.8	99.1	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 2500	97.8	98.9	99.2	99.3	99.5	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 2000	97.8	99.0	99.3	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1800	97.8	99.0	99.3	99.4	99.6	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 1500	97.8	99.0	99.3	99.4	99.7	99.7	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 1200	97.8	99.0	99.3	99.4	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	97.9	99.0	99.3	99.5	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 900	97.9	99.0	99.3	99.5	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 800	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 700	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 600	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
IV 500	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 400	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 300	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 200	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 100	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
IV 0	97.9	99.0	99.3	99.5	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 54917



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

TOTAL SKY COVER

FOR AIRWAYS STATIONS THE SYMBOLS OF CLEAR, SCATTERED,  
BROKEN, OVERCAST, & OBCURED WERE USED AS INPUT FOR THE  
TOTAL SKY COVER.

CLEAR WAS CONVERTED TO 0/10

SCATTERED WAS CONVERTED TO 3/10

BROKEN WAS CONVERTED TO 9/10

OVERCAST WAS CONVERTED TO 10/10

OBCURED WAS CONVERTED TO 10/10



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# SKY COVER

22174  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
PERIOD

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02													
	03-05	45.7			19.2						15.0	20.1	3.9	234
	06-08	32.9			24.8						19.9	22.3	4.8	757
	09-11	23.7			29.9						21.2	25.2	5.3	900
	12-14	19.8			29.1						24.0	27.1	5.7	900
	15-17	17.0			28.1						27.5	27.4	6.1	822
	18-20	25.1			27.7						24.0	23.1	5.3	653
	21-23	41.3			24.9						16.4	17.4	4.0	281
TOTALS		29.4			26.2						21.1	23.2	5.0	4547

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

23104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70.73-81  
PERIOD

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
FEB	0-02													
	03-05	50.2			15.5						17.4	16.9	3.7	219
	06-08	32.0			27.5						22.6	17.8	4.6	712
	09-11	24.0			31.5						22.8	21.7	5.2	820
	12-14	20.9			31.7						26.1	21.2	5.4	819
	15-17	21.3			30.9						24.8	23.9	5.6	757
	18-20	25.4			28.4						26.1	20.1	5.2	617
	21-23	44.0			20.9						21.6	13.6	3.9	273
TOTALS		31.0			26.6						23.1	19.3	4.8	4217

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER



2

USE WITH CAUTION  
SEE FIRST PAGE

STATION NAME

PERIOD

APR  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	00-02													
	03-05	61.6			19.4						11.6	7.4	2.4	242
	06-08	42.5			31.6						15.7	10.1	3.4	781
	09-11	43.4			31.9						15.1	9.6	3.3	900
	12-14	35.2			35.7						19.0	10.1	3.8	900
	15-17	34.9			33.5						18.1	13.5	4.0	830
	18-20	38.2			32.8						15.5	13.5	3.7	704
	21-23	51.4			28.6						11.6	8.4	2.7	346
TOTALS		43.9			30.5						15.2	10.4	3.3	4703

FORM  
1

0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFIP WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

27104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
PERIOD

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
MAY	0-02												
	03-05	49.8			31.5						14.9	3.7	241
	06-08	49.3			28.7						14.7	7.3	783
	09-11	48.3			29.8						14.7	7.2	905
	12-14	40.3			36.0						16.8	7.0	906
	15-17	36.4			36.7						19.0	8.6	833
	18-20	39.3			30.6						21.1	9.0	715
	21-23	52.7			26.1						13.7	7.5	387
TOTALS		45.2			31.2						16.4	7.2	4770

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER

JUN  
MON

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JUN	0-02												
	03-05	53.4			29.8						14.3	2.5	238
	06-08	51.4			32.5						12.3	3.9	773
	09-11	54.2			30.7						11.5	3.7	899
	12-14	52.7			32.3						10.9	4.1	900
	15-17	49.2			34.0						11.3	5.4	829
	18-20	49.3			30.6						13.1	7.0	696
	21-23	60.3			21.9						13.2	4.5	401
TOTALS		52.9			30.3						12.4	4.4	4736



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

27104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80  
PERIOD

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUL	00-02													
	03-05	13.9			42.0						26.5	17.6	5.4	245
	06-08	13.4			38.4						30.7	17.5	5.7	78
	09-11	17.2			41.6						29.2	12.1	5.1	902
	12-14	15.5			51.8						26.5	6.2	4.6	905
	15-17	12.6			52.0						29.4	6.1	4.8	841
	18-20	11.8			32.2						41.1	14.9	6.2	718
	21-23	17.3			29.4						35.1	18.3	5.9	405
TOTALS		14.5			41.1						31.2	13.2	5.4	4800

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# SKY COVER

25104  
STATION

WILLIAMS AFB AZ

STATION NAME

69-70,73-80

PERIOD

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
AUG	00-02													
	03-05	35.2			38.9						18.2	7.7	3.6	247
	06-08	24.8			45.6						21.8	7.8	4.1	798
	09-11	31.0			45.3						18.6	5.1	3.5	929
	12-14	26.2			53.4						17.1	3.2	3.5	930
	15-17	21.4			56.2						19.3	3.1	3.7	860
	18-20	24.0			38.7						28.0	9.3	4.6	721
	21-23	36.2			28.0						22.5	13.2	4.2	378
TOTALS		28.4			43.7						20.8	7.1	3.9	4863

USAFETAC

FORM  
JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# SKY COVER

23114  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
PERIOD

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
SEP	0-02													
	3-05	60.4			25.3						6.7	7.6	2.1	225
	6-08	41.1			34.7						17.2	6.9	3.3	734
	09-11	40.7			39.3						14.1	6.0	3.0	873
	12-14	34.0			46.7						12.2	7.1	3.2	874
	15-17	29.4			48.7						14.4	7.4	3.5	798
	18-20	38.2			33.0						17.6	11.2	3.7	652
	21-23	45.6			26.2						16.8	11.3	3.4	309
TOTALS		41.3			36.3						14.1	8.2	3.2	4465



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

23104  
STATION

WILLIAMS AFB AZ

69-70, 73-80

OCT

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS	
		0	1	2	3	4	5	6	7	8	9			10
OCT	00-02													
	03-05	65.5			19.6						8.1	6.8	2.0	235
	06-08	52.3			25.5						15.0	7.2	2.8	768
	09-11	46.0			30.3						15.1	8.6	3.1	900
	12-14	38.6			35.5						19.4	6.4	3.5	903
	15-17	37.9			35.0						20.1	7.0	3.6	820
	18-20	51.9			27.1						15.3	5.7	2.8	680
	21-23	63.8			21.5						11.5	3.2	2.0	312
TOTALS		50.9			27.8						14.9	6.4	2.8	4618



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

23104  
STATION

WILLIAMS AFB AZ

STATION NAME

69-70, 73-80

PERIOD

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	00-02													
	03-05	64.2			17.9						8.7	9.2	2.2	218
	06-08	45.2			31.6						13.8	9.3	3.1	730
	09-11	35.5			36.3						16.2	11.9	3.7	856
	12-14	32.4			36.8						17.6	13.2	4.0	856
	15-17	31.9			35.3						18.8	14.0	4.1	781
	18-20	48.4			28.5						14.4	8.7	3.0	618
	21-23	68.0			19.4						6.1	6.5	1.8	247
TOTALS		46.5			29.4						13.7	10.4	3.1	4306



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## SKY COVER

23104  
STATION

WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	00-02													
	03-05	59.8			20.7						6.5	13.0	2.5	184
	06-08	43.6			25.6						15.0	15.8	3.7	692
	09-11	34.0			27.2						20.4	18.4	4.5	849
	12-14	29.4			32.8						17.2	20.5	4.6	853
	15-17	29.9			31.5						18.5	20.2	4.6	737
	18-20	41.0			28.0						18.1	12.9	3.8	497
	21-23	54.8			20.8						13.1	11.3	2.9	221
TOTALS		41.8			26.7						15.5	16.0	3.8	4033



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SKY COVER

27104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-81  
PERIOD

ALL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	29.4			26.2						21.1	23.2	5.0	4547
FEB		31.0			26.6						23.1	19.3	4.8	4217
MAR		31.4			29.2						19.5	20.0	4.6	4805
APR		43.9			30.5						15.2	10.4	3.3	4703
MAY		45.2			31.2						16.4	7.2	3.1	4770
JUN		52.9			30.3						12.4	4.4	2.5	4736
JUL		14.5			41.1						31.2	13.2	5.4	4800
AUG		28.4			43.7						20.8	7.1	3.9	4863
SEP		41.3			36.3						14.1	8.2	3.2	4465
OCT		50.9			27.8						14.9	6.4	2.8	4618
NOV		46.5			29.4						13.7	10.4	3.1	4306
DEC		41.8			26.7						15.5	16.0	3.8	4033
TOTALS		38.1			31.6						18.2	12.2	3.8	54863



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
  - b. Daily minimum temperatures
  - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse



3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.



FEDERAL CLIMATOLOGY BRANCH  
 AFETAC  
 WEATHER SERVICE/MAC  
 204 WILLIAMS AFB AZ  
 STATION STATION NAME

# DAILY TEMPERATURES

42-81

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10						.1	.2						.3
11					.1	5.5	5.8	.8	1.1				1.1
12					1.9	24.0	35.7	16.3	8.9				7.3
13				.1	9.7	55.8	74.3	57.6	33.7	2.3			19.7
14				5.7	33.3	80.5	93.5	87.7	66.6	15.7			32.3
15		.1	1.1	18.8	60.9	93.1	98.5	97.1	87.3	39.1	1.1		41.9
16		1.1	7.7	40.6	79.6	99.0	99.7	99.2	96.1	62.4	7.0		50.0
17	1.4	7.8	22.5	63.6	89.6	99.9	100.0	99.8	98.7	78.8	25.6	2.1	58.1
18	7.4	21.9	42.7	77.6	95.8			99.9	99.7	89.1	47.1	11.7	66.6
19	23.9	43.6	62.3	87.9	98.8	100.0		100.0	100.0	95.2	68.8	30.9	76.4
20	46.1	66.7	78.5	95.4	99.9					98.1	84.4	56.1	85.7
21	70.8	84.3	92.0	98.9	100.0					99.5	94.5	78.0	93.3
22	87.7	95.5	97.8	99.7						99.7	98.7	91.0	97.5
23	96.2	99.3	99.8	100.0						100.0	99.6	96.7	99.3
24	99.2	100.0	100.0								99.9	99.5	99.9
25	99.9										100.0	100.0	100.0
26	100.0												100.0
27													
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MEAN	63.6	68.0	72.2	81.4	90.5	99.9	102.3	99.9	96.6	85.9	73.3	65.3	83.2
S D	7.692	7.912	8.725	8.926	7.854	6.311	4.974	4.855	6.278	8.652	8.228	7.767	15.752
TOTAL OBS.	1176	157	1193	1183	1216	1159	1184	1201	1142	1188	1135	1150	13984



ATMOSPHERIC CLIMATOLOGY BRANCH

USAFETAC

WEATHER SERVICE/MAC

1964 WILLIAMS AFB AZ

STATION

STATION NAME

42-81

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1						.1							.1
2						.3	.1	.1					.5
3					.1	1.5	2.7	1.2	.6				5.5
4					.7	4.1	12.1	5.4	1.7	.1			20.0
5				.2	2.1	12.8	49.2	31.0	10.1	.5			90.0
6				.3	4.9	28.9	83.7	72.4	29.9	1.7	.2		18.8
7		.1	.3	3.0	13.2	54.1	97.3	95.2	62.3	8.4			28.2
8		.2	.8	7.2	33.1	81.6	99.9	99.3	86.2	26.1	.7	.1	36.7
9	.2	.5	2.7	20.9	64.2	95.9	100.0	99.9	96.6	49.2	3.0	.3	45.0
10	.9	3.2	11.2	42.9	86.4	99.7		100.0	99.5	74.3	11.5	1.7	53.3
11	6.1	15.0	30.7	69.4	95.8	100.0			100.0	89.1	32.9	7.0	62.9
12	20.3	36.7	61.5	89.4	99.1					96.1	62.6	22.6	74.6
13	44.7	65.5	84.6	97.9	99.8					98.9	82.6	49.2	85.6
14	73.4	85.6	96.4	99.9	100.0					99.9	95.9	78.2	94.2
15	87.9	90.9	98.3	100.0						100.0	98.0	86.5	96.3
16	90.5	96.2	99.6								99.7	94.7	93.4
17	97.6	99.6	99.8								99.8	99.6	99.7
18	99.7	100.0	100.0								100.0	100.0	100.0
19	100.0												100.0
20													
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100													
MEAN	35.7	42.1	46.3	53.5	61.9	70.9	79.2	77.1	71.3	59.2	46.4	39.6	57.2
S.D.	6.996	7.02	6.753	7.477	7.298	7.287	4.824	4.744	6.389	7.791	6.973	6.521	15.77
TOTAL OBS.	1160	1057	1193	1183	1216	1159	1184	1201	1142	1188	1135	1150	13966



NATIONAL CLIMATOLOGY BRANCH  
 WPC  
 SERVICE/MAC  
 WILLIAMS AFB AZ  
 STATION STATION NAME

# DAILY TEMPERATURES

42-61

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

YEAR

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10						.1							.1
11						.9	1.3	.2	.1				.2
12					.2	6.3	16.7	4.9	2.0				5.6
13					2.8	26.7	66.3	45.8	15.8	.1			13.3
14				.3	9.1	58.9	94.2	85.3	49.6	3.1			25.4
15				4.3	33.0	83.6	99.5	97.9	80.4	19.7	.2		35.3
16		.1	.9	18.3	65.3	96.0	100.0	99.8	95.7	42.9	.5		43.9
17		.8	5.9	40.9	83.7	99.7		100.0	99.2	70.3	6.3	.2	51.3
18	.6	6.6	22.1	68.2	94.4	100.0			99.9	85.9	26.7	1.0	59.5
19	8.1	24.9	51.1	84.9	98.8				100.0	94.9	55.5	11.3	69.8
20	30.9	55.1	76.4	95.8	99.9					98.6	79.1	39.0	81.6
21	64.1	81.5	92.5	99.4	100.0					99.5	94.2	70.8	92.0
22	85.9	94.3	99.3	100.0						99.9	99.2	91.3	97.6
23	96.6	99.3	99.8							100.0	99.9	98.3	99.5
24	99.3	100.0	100.0								100.0	99.3	99.9
25	100.0											100.0	100.0
26													
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100													
MEAN	71.3	55.2	59.4	67.6	76.4	85.5	90.9	88.7	84.1	72.7	60.0	52.6	70.4
S D	10.1	8.336	6.643	7.269	6.782	6.034	3.917	3.977	5.395	7.340	6.508	5.852	15.277
TOTAL OBS	116	157	1193	1123	1216	1159	1184	1201	1142	1118	1135	1150	13968



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB A2

42-81

STATION

STATION NAME

YEARS

### WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42			90	94	108	111	114	108	106	101	87	81	
43	76	93	92	101	104	108	112	105	107	98	87	77	112
44	80	78	82	90	99	110	108	112	105	99	87	75	112
45	79	80	85	96	99	108	110	108	111	94	86	74	111
46	77*	73		98	98	108	110	110	106	90	81	80	
47	76	88	88	95	108	107	113	110	111	100	90	76	113
48	80	83	82	99	101	110	112	111	110	100	82	75	112
49	69	81	82	98	104	110	110	109	107	96	91	80	110
50	80	83	89	97	100	113	112	111	113	102	86	83	113
51	84	84	84	95	110	108	112	107	104	99	80	76	112
52	73	77	81	95	102	110	110	108	108	101	87	77	110
53	84	80	90	97	99	111	113	109	107	103	92	76	113
54	81	86	86	98	101	110	112	108	109	101	89	78	112
55	74	79	87	92	103	114	112	105	108	101	87	84	114
56	84	77	93	92	107	112	110	106	105	100	89	75	112
57	70	89	85	92	99	114	113	107	105	100	79	78	114
58	76	84	81	99	109	109	116	107	105	99	85	82	116
59	78	77	84	97	100	111	111	104	105	101	83	82	111
60	75	74	90	93	106	111	109	108	106	96	87	75	111
61	* 78*	79*	83*	95*	98*	110*	108*	105*	97*	96*	74*	73	* 110
62	* 75*	77*	88*	97*	99*	109*	105*	110*	106*	95*	86*	78	* 117
63	* 76*	86*	83*	91	102	103	108	103	103	99	86	75	108
64	72	73	89	93	101	108	108	105	102	97	85	70	108
65	77	80	89	99	102	103	110	108*	100	96*	88*	81	110
66	* 70*	70	88	91*	99	109*	107	106*	102	92*	85*	75	109
67	* 76*	80	87	84*	103	106*	108	105*	100	94*	91*	67	* 108
68	* 72*	82	86	90*	102	112*	106	100*	105	92*	79*	75	112
69	* 70*	75*	9	94*	103	107*	110	110*	106	94*	80*	75	* 110
70	* 72*	82	78	88*	106	117*	110	109*	106	90*	82*	78	117
71	* 84*	82	93	91*	96	108*	111	102*	112*	92*	87*	71	* 112
MEAN													
S. D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88.5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)



(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

42-81

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

**0-88-5 (OL A)**

\* (AT LEAST ONE DAY LESS THAN 24 OBS)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

2 104 WILLIAMS AFB AZ

42-81

STATION

STATION NAME

YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
42			33	38	45	60	68	64	64	44	37	35	
43	29	32	38	43	51	59	68	72	59	45	38	34	29
44	28	32	35	42	51	55	70	72	62	53	32	31	28
45	29	33	35	37	52	56	73	72	55	44	36	29	29
46	30*	28		42	57	66	68	69	62	45	30	30	
47	24	33	41	45	53	64	74	70	63	49	30	29	24
48	22	24	33	41	53	59	74	71	64	46	30	25	22
49	22	27	36	38	54	59	73	67	68	36	43	27	22
50	20	36	38	42	44	54	73	68	57	52	37	32	20
51	23	30	30	40	43	58	71	65	62	42	35	28	23
52	27	30	32	48	58	63	70	71	59	52	33	30	27
53	32	24	38	35	46	57	71	67	52	42	31	26	24
54	29	34	32	47	48	56	70	68	63	42	39	23	23
55	27	24	31	35	45	53	67	69	57	46	34	34	24
56	34	28	30	41	50	64	67	63	66	38	22	25	22
57	33	32	38	41	44	59	73	67	59	50	34	33	32
58	29	36	37	40	56	63	72	75	60	49	30	33	29
59	31	35	37	50	47	60	76	73	58	43	39	32	31
60	28	28	38	40	51	67	71	71	55	45	36	24	24
61	* 32*	37*	42*	42*	51*	56*	68*	68*	58*	37*	30*	31	* 30
62	* 23*	28*	31*	47*	48*	58*	71*	63*	66*	53*	34*	39	* 23
63	* 22*	34*	34*	42	55	57	71	71	63	54	38	29	* 22
64	27	26	30	37	43	58	72	67	59	50	33	28	20
65	30	28	29	40	40	55	72	66*	50	46*	23*	33	* 23
66	* 29*	27	24	40*	52	58*	69	71*	65	43*	34*	23	* 23
67	* 20*	30	34	41*	37	58*	73	73*	63	44*	38*	28	* 20
68	* 30*	35	36	35*	47	54*	64	59*	50	44*	32*	21	* 21
69	* 26*	29*	32	46*	48	62*	66	74*	62	44*	36*	29	* 26
70	* 24*	30	35	36*	47	61*	71	74*	58	37*	36*	32	* 24
71	* 17*	29	24	45*	50	54*	71	71*	56*	34*	35*	28	* 17
MEAN													
S. D.													
TOTAL OBS													

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA) (AT LEAST ONE DAY LESS THAN 24 OBS)



(FROM DAILY OBSERVATIONS)

2-104 WILLIAMS AFB AZ  
STATION STATION NAME

42-81

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

NOTES \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

0-88-5 (OL A)

(AT LEAST ONE DAY LESS THAN 24 OBS)



**USE WITH CAUTION**  
**SEE FIRST PAGE**

## PSYCHROMETRIC SUMMARY

2 174 WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

**YEARS**

PAGE 1

0300-0500

HOURS (L, S, T.)

[illegible]



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70,73-81

YEARS

JAN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
61				.1	.1	.1	.1											1	1				
59				.3	.1	.1	.1											4	4				
57				.5	.3	.1	.1	.1										4	4				
55		.5	.8		.5	.3	.1	.3										19	19				
53		1.3	1.2	.3	1.6	.1	.3	.1										37	37	8	5		
51		1.1	1.1	.8	.7	.5	.5	.4										38	38	19	8		
49	.1	1.3	2.5	.5	.8	.9	.7											52	52	23	11		
47	.1	1.1	2.2	.8	.3	1.2	.1											44	44	29	20		
45	.1	2.5	4.6	.5	1.6	.9	.3											80	80	53	20		
43	.3	1.6	3.4	2.0	.7	.3												62	62	54	27		
41	.1	1.4	3.3	2.5	.8	.3												64	64	66	35		
39		2.1	4.2	3.5	1.4	.7												91	91	62	54		
37	.3	2.5	3.9	2.6	.7	.1												77	77	93	50		
35		1.6	2.4	2.9	.3													54	54	77	52		
33	.1	2.0	2.0	2.1	.1													48	48	71	44		
31		.5	2.8	.8	.1													32	32	74	70		
29	.1	.9	.8	.4	.5													21	21	46	53		
27		.8	.5	.5														14	14	37	50		
25		1.1	.7	.1														14	14	20	53		
23		.1	.5															5	5	13	38		
21																				13	57		
19																				3	45		
17																					25		
15																					14		
13																					14		
11																					4		
9																					3		
7																					4		
5																					3		
3																					1		
1																					1		
-1																					1		
TOTAL	1.3	22.3	36.8	20.6	10.2	5.4	2.2	.9										761	761		761		
																		761		761			
Element (X)	Σx'		Σx		Σx		Σx		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	3645279		51171		67.2		16.402		761		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb	1362279		31693		41.6		7.467		761				10.5										93
Wet Bulb	1094439		28343		37.2		7.147		761				25.2										93
Dew Point	795344		23462		30.8		9.733		761				.1		53.2								93

USAFETAC FORM 0-26-3 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JAN 64



2

(M70) 0000 0000  
 0000 0000 0000 0000

JAN

**MONTH**

0900-1100

**HOURS (L, S, T.)**

[illegible]



2

1

YEARS

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104

WILLIAMS AFB AZ

70,73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
79													.1					1	1					
77													.1	.1	.1			3	3					
75											.1			.2				3	3					
73										.1	.7	.7	.2					15	15					
71								.1		.9	.4	.4						17	17					
69						.1			.8	.9	1.0	.4						29	29					
67					.1	.1		.9	1.1	1.7	1.0	.4						47	47					
65				.1	.1	1.0	2.1	2.0	1.7	.2								65	65					
63			.2	.6	.7	2.1	2.2	1.6	1.4	.7	.1							86	86					
61		.1	.2	1.4	1.8	2.8	1.7	2.4	1.8									110	110					
59		.1	1.0	2.2	2.4	2.2	1.2	2.3	.4	.2								110	110	3				
57		.8	1.3	1.6	3.2	1.9	1.0	.9	.9	.2								106	106	5	1			
55	.2	.4	1.8	2.6	2.2	1.4	1.4	1.0	.3									103	103	24	1			
53	.2	.3	1.1	1.3	1.6	.8	1.2	.6	.3									67	67	80	3			
51		.9	.9	.8	1.2	.8	.8	.6										53	53	140	12			
49	.3	.4	.3	.9	.7	.7	.9	.2										40	40	160	22			
47		.1	.4	.7	.8	.3	.4											25	25	142	26			
45	.3		.1	.4	.6	.2	.1											16	16	111	45			
43			.1			.2												3	3	7	59			
41					.1													1	1	55	69			
39																				44	85			
37																				28	82			
35																				22	69			
33																				6	43			
31						.1														3	72			
29																					39			
27																					56			
25																					53			
23																					26			
21																					39			
19																					29			
17																					11			
15																					10			
13																					14			
Element (X)	Σ H'			Σ H			Σ		Σ		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total					
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (OLA) REVERSED MIRROR EDITION OF THE FORM AIR OBSOLETE  
USAFETAC



2

1

**YEARS**

JAN  
MONTH

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
1 / 11																					9
/ 9																					10
/ 7																					6
/ 5																					3
- / 3																					2
/ i																					2
/ -1																					2
TAL		1.1	3.2	7.6	12.6	15.6	14.4	14.1	13.4	10.4	4.6	2.1	.4	.3	.1				900		900
																		900		900	

**USAFETAC**  
FORM  
NO. 44  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

JAN

**MONTH**

1900 270

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HOURS (L - S - T)

[illegible]



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

21004 WILLIAMS AFB AZ  
STATION STATION NAME

70,73-81  
YEARS

JAN  
MONTH  
PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
74 / 73											.2	.3	.2					1	1					
73 / 71										.2	.3							3	3					
72 / 69										.2	.3		.2					4	4					
71 / 67						.2		.3	.5	.9	.3			.2				14	14					
70 / 65					.3		.3	.6	1.1	1.2	.2							24	24					
69 / 63					.2	.6	.8	1.2	1.1	.9	.2							32	32					
68 / 61				.5	.2	1.4	1.5	2.0	2.5	.3	.2							55	55					
67 / 59			.6	.6	1.2	2.5	1.5	3.1	2.5	.2	.5							82	82	1				
66 / 57		.3	.5	1.4	1.4	3.2	2.1	1.4	1.2	.2								76	76	4				
65 / 55			.9	2.8	2.6	2.8	2.3	.9	.6	.2								85	85	8				
64 / 53	.2	.3	.8	2.1	2.9	2.3	2.5	1.4	.5									84	84	23	10			
63 / 51		.3	1.2	1.8	1.5	1.7	1.5	.5	.3									58	58	67	4			
62 / 49		.2	1.4	1.7	.9	1.4	2.3	.3	.2									54	54	98	14			
61 / 47		.2	.8	1.2	.9	.8	.6											29	29	96	18			
60 / 45		.2	.3	.8	.8	1.1	.8											25	25	109	33			
59 / 43		.2	.3	.3	.5	.2	.5											12	12	76	41			
58 / 41		.2		.6	.3	.2	.2											9	9	62	46			
57 / 39			.2	.2	.3	.2												5	5	42	45			
56 / 37																				31	71			
55 / 35																				20	45			
54 / 33					.2													1	1	11	37			
53 / 31																				2	40			
52 / 29																					2			
51 / 27																				1	44			
50 / 25																					35			
49 / 23																					31			
48 / 21																					24			
47 / 19																					21			
46 / 17																					6			
45 / 15																					5			
44 / 13																					5			
43 / 11																					7			
42 / 9																					4			
41 / 7																					5			
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F						
Dry Bulb																								
Wet Bulb																								
Dew Point																								



2.

1

YEARS

PAGE 2

1800-2000  
HOURS (L. S. T.)

[illegible]



USE WITH CAUTION  
SEE FIRST PAGE

## PSYCHROMETRIC SUMM

2 14 WILLIAMS AFB AZ

70,73-81

STATION

STATION NAME

**YEARS**

PAGE 1 21-0

21

**MOLES**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb					
4/ 63								.4	.4									2	2						
✓ / 61					.4		.4	.4	.4									4	4						
/ 59			.4			.4		1.4	.4									7	7						
/ 57		.4		1.1		1.1		1.8	.4									13	13						
5 / 55		.7	.4	.4	2.1	1.1	.7	.7	.4									18	18	4					
✓ / 53			1.1	.7	2.5	1.8	2.5		.4									25	25						
/ 51		.4	1.8	2.8	2.8	3.9	1.8											38	38	3					
✓ / 49		.4	5.3	1.4	3.2	2.5	1.4		.4									40	40	10					
✓ / 47		.4	2.5	2.5	2.1	4.3	.4											34	34	28					
✓ / 45		.4	2.5	2.1	2.5	1.8												26	26	73					
4/ 43		.7	3.2	2.5	2.1	.4	.4	.7										28	28	77					
2/ 41			2.1	.7	4.3	.4												21	21	45					
✓ / 39	.7		1.1	.7														7	7	35					
✓ / 37			1.1	.7	1.1													8	8	31					
/ 35				1.8	.4													6	6	21					
3 / 33				.7														2	2	14					
✓ / 31																				8					
✓ / 29			.7															2	2	5					
/ 27																				3					
/ 25																				2					
✓ / 23																									
2/ 21																									
/ 19																									
/ 17																									
✓ / 15																									
✓ / 13																									
1 / 11																									
/ 9																									
/ 5																									
4/ 3																									
TOTAL	.7	3.2	21.7	18.1	23.5	17.4	7.5	5.3	2.5									281	281	281					
Element (X)	Σ x <sup>2</sup>		Σ x		x̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature														
Rel. Num.	931219		15463		55.0		16.936		281		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F				
Dry Bulb	670062		13612		48.4		6.176		281				.7												
Wet Bulb	485514		11578		41.2		5.499		281				6.0												
Dew Point	306333		8933		31.8		8.935		281				48.0												



2 14	WILLIAMS AFB AZ
STATION	STA

70,72-81

JAN  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 2

[illegible]

**USAFETAC**  
POLAR  
JUL 64  
0-26-5 (OL A)  
SERVING SEVERAL PURPOSES OF THE POLAR AND OCEANIC



GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/HAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2 : 4 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
0 / 65											.5							1	1			
1 / 59				.5			.5	.5		.5								4	4			
5 / 57			.9	.5						.9								5	5			
5 / 55		.9	2.3	.5	.9	.5	.9		.5									14	14	2		
7 / 53			.9	1.8	.5	.5	.9	.5		.5								12	12	3		
7 / 51	.9	1.4	2.3	.5	.5		.5											13	13	8		
7 / 49		.9	2.3	2.3	2.3	.5	1.4		.5									22	22	8	4	
7 / 47		1.4	3.2	5.0	.9	4.5	.5											34	34	17	5	
7 / 45	.5	3.2	1.8	2.7	.9	1.4	.5											24	24	13	12	
4 / 43		.9	1.8	3.2	5.5	1.8	.9											31	31	23	11	
2 / 41		.5	1.8	2.3	2.7	2.3												21	21	26	17	
1 / 39		1.4	.9	1.4	.9	.9	.5											13	13	19	11	
1 / 37			.9	2.3	.5													8	8	31	10	
1 / 35		1.4	.9	1.4	.5													9	9	22	13	
3 / 33			.5	1.4	.9													6	6	18	17	
1 / 31				.5														1	1	15	19	
1 / 29			.5		.5													2	2	7	8	
1 / 27																					11	
1 / 25																				2	15	
1 / 23																				1	19	
2 / 21																					13	
1 / 19																					6	
1 / 17																					7	
1 / 15																					5	
1 / 13																					6	
1 / 11																					2	
1 / 9																					1	
1 / 7																					1	
1 / 5																					1	
1 / 3																					1	
TOTAL	1.4	11.8	20.9	25.9	17.3	12.3	6.4	.9	.9	1.8	.5							220	220	220	220	
Element (X)	Σ x'		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x	
Rel. Hum.	839722		12936		58.8		19.003		220		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F	
Dry Bulb	474129		10117		46.0		6.370		220		1.1										84	
Wet Bulb	356859		8745		39.8		6.497		220		11.5										84	
Dew Point	236889		6813		31.0		10.876		220		45.8										84	

USAFETAC FORM 0-26-3 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-3 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 194 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
67											.1							1	1		
66										.3								2	2		
65								.1	.3		.3							5	5		
64			.1							.1								2	2		
63		.1	.4	.3			.1		.1	.1								9	9	1	1
62		.1	.7	.3				.3		.1								11	11	1	
61			1.7	.1	.4		.3	.3										20	20	8	1
60	.3	.7	.7	.7	1.7	.8	.3	.8	.1									44	44	10	6
59	.4	.8	2.4	.8	1.3	1.0	.6	.3	.3									56	56	21	15
58		1.7	2.7	1.7	1.0	1.4	1.7	.3										69	69	13	8
57	.3	1.4	3.2	3.1	2.4	2.1	1.7	.1										97	97	55	25
56	.1	1.7	2.1	3.6	1.4	1.1	.4	.3										77	77	51	28
55		.8	2.5	2.7	2.2	.7	1.7											71	71	63	28
54		1.1	1.5	3.8	2.9	.4	.1											71	71	65	39
53		1.3	2.1	3.4	1.5	1.0	.4											72	72	91	26
52		.8	.7	2.2	.7	.6												36	36	85	40
51		.4	1.3	1.3	.8	.1												28	28	72	41
50		1.1	1.1	.7	.3	.1												23	23	74	55
49			.4	.7	.3													10	10	44	65
48				.1	.3													3	3	25	44
47		.4	.4															6	6	16	41
46																				12	44
45																				6	57
44																					55
43																					21
42																					13
41																					16
40																					9
39																					5
38																					6
37																					2
Element (X)	Σ <sub>g</sub>		Σ <sub>h</sub>		Σ		C <sub>g</sub>		No. Obs.		Mean No. of Hours with Temperature						Total				
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OLA) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 04 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

0600-0800

HOURS (L, S, T,)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 14 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb		Dew Point						
0/ 75													.1						1	1							
4/ 73												.1	.2						3	3							
7/ 71									.1	.1	.1	.2							5	5							
7/ 69								.2	.4	.1	.9	.1	.2						16	16							
7/ 67						.1	.1	.4	.7	.6	.6	.7							26	26							
6/ 65					.1	.1	.6	.4	1.1	.7	.4	.2							30	30							
4/ 63				.6	.4	.5	1.2	.5	1.6	.6	.4	.2							49	49							
7/ 61			.1	.4	.4	1.6	1.5	1.1	1.0	.1	.5	.1							55	55							
7/ 59		.2	.6	1.1	1.3	1.2	1.6	1.8	1.8	.5	.4								87	87	1						
7/ 57		.4	.6	1.5	1.5	1.6	2.0	2.1	.7	.2	.1								87	87	12						
5/ 55		.5	1.1	1.7	2.4	2.2	2.4	2.2	.9	.2									112	112	20						
4/ 53		.2	2.3	1.7	1.7	2.0	1.6	.7	.2										83	83	39						
7/ 51	.2	.4	1.5	1.1	1.8	1.8	2.1	.6	.4										81	81	84						
5/ 49	.1	.5	1.1	2.1	2.2	1.6	.6	.7											72	72	106						
7/ 47		.2	1.2	1.1	1.0	1.3	.7												46	46	106						
4/ 45		.4	.5	.9	.9	.4	.2	.2											28	28	114						
4/ 43		.2	.4	.6	.5	.1	.4												18	18	109						
2/ 41			.2	.4	.4	.5													12	12	92						
4/ 39				.4	.1	.1													5	5	61						
3/ 37				.1	.2														3	3	33						
7/ 35																					22						
3-/ 33			.1																1	1	11						
2/ 31																					6						
1/ 29																					4						
7/ 27																											
7/ 25																											
24/ 23																											
2/ 21																											
2/ 19																											
14/ 17																											
15/ 15																											
14/ 13																											
12/ 11																											
1/ 9																											
Element (X)	Σ X'			Σ X			Σ			Σ			Σ			Σ			Σ			Σ			Σ		
Rel. Hum.																											
Dry Bulb																											
Wet Bulb																											
Dew Point																											



## PSYCHROMETRIC SUMMARY

2 104	WILLIAMS AFB AZ
STATION	STATION NAME

70.73-81

YEARS

FEB

**MONTH**

PAGE 2

0900-1100

1000000 (1000000)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
/ 7																					7	
/ 5																					2	
TAL	.4	3.0	9.4	13.4	14.9	15.1	14.9	11.0	8.9	3.2	3.3	1.7	.9					820	820	820	820	
						</																



2

## 1

FEB

STATION	STATION NAME
---------	--------------

**YEARS**

**MONTH**

1200-1400

HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OLA) SEVERAL PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

27104

WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

**MONITOR**

PAGE 2

1200-1400

MOUSE (L. S. T.)

[illegible]



2

1

1500-1700  
HOURS (L. S. T.)

**USAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMAR

2 2114 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1980-200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Po		
81														.2				1	1				
79														.2	.2			2	2				
77											.5			.3	.8	.2		11	11				
75										.2	.3	.6		.5	.8			15	15				
73									.5	.2	.6	1.5		.8				22	22				
71									.5	.6	1.1	1.3		.2	.2			24	24				
69									.8	.8	1.5	1.5	1.1	.5				38	38				
67						.2	1.0	.6	1.5	1.8	2.3	1.3						53	53				
65				.3	1.1	1.1	1.9	1.1	1.9	1.8	.5							61	61				
63			.2	.3	.6	1.6	1.0	2.1	1.8	1.0	.2							54	54				
61		.2	.6	1.1	1.8	1.6	1.8	2.1	1.3	.3								67	67				
59		1.3	1.5	1.1	1.9	2.6	2.3	1.1	.6									75	75				
57		1.7	1.6	1.3	1.3	1.6	1.5	.6	.8									60	60	18			
55	.2	.6	.5	1.3	.5	1.5	2.8	.5	.5									51	51	34			
53	.5	.6	.8	.5	1.1	.5	.8	.5										33	33	71			
51	.2	.6	.8	.2	.8	.5	.5	.2										23	23	102	1		
49		.6	.8	.3			1.3											17	17	84	2		
47		.3	.3			.2	.3											7	7	99	3		
45					.3													2	2	77	2		
43			.2															1	1	61	3		
41																				36	3		
39																				17	4		
37																				3	3		
35																				10	2		
33																					3		
31																					5		
29																					3		
27																					3		
25																					5		
23																					3		
21																					2		
19																					1		
17																					1		
15																					1		
Element (X)	Σ X'		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							
					</																		



## PSYCHROMETRIC SUMMARY

2 104 WILLIAMS AFB AZ

70, 73-81

STATION

STATION NAME

**YEARS**

FFF

MONTH:

PAGE 2 1800-1

1600-1

100.0  
100.0

[illegible]



AD-A110 246

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC(U)  
OCT 81  
USAFETAC/DS-81/096 SBI-AD-FASO 129

UNCLASSIFIED

**SBI-AD-E850 129**

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70,73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
69									.4									1	1			
66/ 65									.4									1	1			
64/ 63					.4		1.1	.7	.7	.7	.4							11	11			
63/ 61						.4	.4	.4	.7	1.1	.7							10	10			
61/ 59				1.5	.7	2.2	1.5	.7	1.1	.4								22	22			
59/ 57			.4	1.5		2.6	1.5	2.6	1.1	.4								27	27			
57/ 55		1.1	1.5	1.5	1.1	2.2	1.1	1.8	2.6	1.1								38	38	1		
55/ 53			2.2	2.2	2.6	1.8	3.7	2.9	.7									44	44	12		
53/ 51		.4	2.2	2.2	2.2	2.6	2.9	1.5	.4									39	39	15	6	
51/ 49		1.1	.7	1.8	2.2	1.8	1.5	1.5										29	29	22	4	
49/ 47		.4	1.5	.7	.4	2.6	.7											17	17	32	12	
47/ 45		1.1		1.8	2.2	.4	1.1											18	18	33	14	
45/ 43			1.1	1.1	.4	1.1												10	10	41	13	
43/ 41				.4	.4	.4	.4											4	4	42	12	
41/ 39					.4													1	1	39	20	
39/ 37				.4														1	1	19	18	
37/ 35																				8	16	
35/ 33																				5	21	
33/ 31																				3	14	
31/ 29																				1	12	
29/ 27																					16	
27/ 25																					21	
25/ 23																					23	
23/ 21																					13	
21/ 19																					9	
19/ 17																					5	
17/ 15																					6	
15/ 13																					7	
13/ 11																					5	
11/ 9																					1	
9/ 7																					3	
7/ 5																					2	
TOTAL		4.0	9.5	15.0	12.8	17.9	15.8	12.1	8.1	3.7	1.1							273	273	273	273	
Element (X)	Z <sub>1</sub>		Z <sub>2</sub>		Z		C <sub>1</sub>		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.	715647		12969		47.5		19.131		273		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb	781104		14530		53.2		5.344		273				.3				84					
Wet Bulb	529962		11950		43.8		5.028		273			1.2					84					
Dew Point	304889		8659		31.7		10.545		273			42.2					84					

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70, 73-81  
YEARS

FEB  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
6/ 85																	.0	1	1			
4/ 83													.0	.0	.0	.1		9	9			
1/ 81														.1	.2	.1		17	17			
1/ 79											.0	.1	.2	.5	.3			47	47			
7/ 77										.1	.2	.5	.7	.5	.1			60	60			
6/ 75										.1	.2	.5	.7	.5	.1			89	89			
4/ 73								.0	.1	.3	.6	.9	.7	.3				125	125			
2/ 71							.0	.1	.5	.5	1.2	1.0	.5	.1				165	165			
7/ 69						.1	.2	.6	.7	.6	1.3	.9	.5					205	205			
6/ 67					.0	.3	.4	.9	1.1	.9	1.3	.9	.0					248	248			
6/ 65				.2	.2	.4	.8	1.4	.9	1.1	.8	.4						261	261			
4/ 63			.0	.3	.3	.5	1.1	.9	1.3	1.1	.6	.1						265	265			
1/ 61			.1	.3	.5	1.1	1.1	1.2	1.1	.8	.4	.0						285	285			
1/ 59		.1	.3	.8	.9	.9	1.3	1.4	1.2	.6	.3							329	329	31	1	
5/ 57		.1	.6	.8	.8	1.0	1.1	1.1	.6	.7	.0							282	282	94	2	
5/ 55		.3	.9	.6	1.1	.9	1.1	1.1	.7	.3								293	293	198	10	
4/ 53	.0	.4	.9	.9	1.1	.9	.9	.7	.2	.0								263	263	401	41	
3/ 51	.3	.3	1.1	.8	.8	.9	.8	.4	.2									236	236	514	85	
5/ 49	.0	.5	1.0	1.1	.9	.7	.5	.5	.0									223	223	481	99	
4/ 47	.0	.4	1.1	1.1	.7	1.0	.4	.1										204	204	536	150	
4/ 45	.0	.6	.5	1.0	.6	.4	.2	.1										149	149	441	177	
4/ 43		.2	.7	.8	.8	.3	.3											131	131	373	208	
2/ 41		.2	.4	.9	.7	.3	.0											108	108	316	261	
4/ 39		.3	.4	.8	.4	.2	.1											91	91	257	251	
3/ 37		.1	.2	.5	.2	.1												48	48	185	291	
1/ 35		.1	.3	.3	.2	.0												37	37	140	239	
3/ 33		.2	.2	.2	.1	.0												30	30	109	278	
2/ 31			.1	.1	.0													11	11	68	332	
3/ 29			.0	.0	.1													5	5	37	251	
2/ 27		.1	.1															6	6	21	269	
2/ 25																				14	277	
2/ 23																				7	233	
2/ 21																					190	
2/ 19																					121	
Element (X)	Σ H <sup>1</sup>		Σ H		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 86 F	≥ 93 F	Total			
Dry Bulb																						
Wet Bulb																						
Dew Point																						

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

1

**YEARS**

**MONTH**

ALL

ALL  
HOURS (L. S. T.)

**USAFETAC**  
FORM  
JAN 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION **PSYCHROMETRIC SUMMARY**  
SEE FIRST PAGE

2104 WILLIAMS AFB AZ 70,73-81 MAR  
STATION STATION NAME YEARS MONTH  
PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
4/ 63									.4	.4								2	2					
5/ 61					.4		.4	.4	.4	.4								5	5					
6/ 59		.4		.4			.4	.4		.4								5	5					
5/ 57			.8	.8	.4			.8										7	7	1				
5/ 55			.8	.8	2.0	.8	.8	1.2										16	16	3	1			
4/ 53				.4	1.6	1.6	.4	.8	.4									13	13	2				
2/ 51		.4	2.8	.8	1.6	1.6	1.6	.4	.8									25	25	5	3			
5/ 49		.8	2.0	2.4	1.6	2.8	.8	.4										27	27	6	4			
4/ 47		1.6	3.6	4.9	2.8	.8	2.0	.8										41	41	18	3			
4/ 45		1.6	2.4	4.0	2.8	2.8	.8											36	36	24	11			
4/ 43	.4	2.4	2.0	2.0	1.2	2.4	1.6											30	30	33	10			
2/ 41		2.0	1.2	1.2	1.6	.4	.4											17	17	41	14			
4/ 39		.8	1.6		1.2	.4												10	10	38	21			
3/ 37	.4	1.6	.4	.4	.4													8	8	27	22			
7/ 35			.8		1.2													5	5	18	18			
3/ 33																				16	21			
2/ 31																				11	23			
3/ 29																				2	12			
2/ 27																				2	14			
6/ 25																					12			
24/ 23																					8			
2/ 21																					8			
2/ 19																					13			
1/ 17																					6			
1/ 15																					7			
14/ 13																					6			
12/ 11																					4			
10/ 9																					3			
8/ 7																					3			
TOTAL	.8	11.7	10.6	16.2	19.0	13.8	9.3	5.3	2.0	1.2								247	247		247			
																		247		247				
Element (X)	Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.	910524		14142		57.320.245		247		247		247		247		247		247		247		247			
Dry Bulb	572769		11809		47.8		5.768		247		247		247		247		247		247		247			
Wet Bulb	421963		10123		41.0		5.368		247		247		247		247		247		247		247			
Dew Point	274109		7849		31.8		10.018		247		247		247		247		247		247		247			

USAFETAC FORM 0-26-5 (OLA) REVERSED MIRROR EDITIONS OF THIS FORM ARE OBSOLETE JAN 64



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70, 73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 31					Dry Bulb	Wet Bulb	Dew Point
7 / 69							.1														1	1		
6 / 67							.1														1	1		
6 / 65						.1															1	1		
4 / 63			.1		.1		.1			.1											4	4		
3 / 61				.1	.2	.2	.5	.4	.1												13	13		
1 / 59		.1	.5	.6	.7	.2	.5	.1	.5												27	27	1	
1 / 57			.1	.4	.5	1.1	.5	.2	.5												27	27	4	1
5 / 55			.7	.2	1.5	1.2	.9	.5	.6												46	46	10	2
4 / 53		.1	.4	1.7	1.4	2.6	.5	1.2													64	64	10	1
2 / 51		.4	1.6	1.5	1.9	2.9	1.0	.9	.1												82	82	18	10
50 / 49		1.0	3.1	1.6	2.1	1.9	1.1	1.0													95	95	21	14
4 / 47		1.6	3.1	3.6	2.5	1.2	.9	.4													107	107	71	10
40 / 45		2.1	2.7	4.5	2.7	1.7	.7														117	117	72	26
44 / 43		2.0	2.6	1.5	.6	1.0	1.0														70	70	134	40
2 / 41		2.6	1.0	.6	1.2	1.6	.2														59	59	123	44
4 / 39	.1	1.1	1.9	.6	1.1	.6															44	44	115	89
3 / 37	.1	.9	.5	.5	.7																22	22	78	76
2 / 35		.6	.4	.6	.2																15	15	48	73
34 / 33		.2			.4																5	5	41	62
2 / 31				.1																	1	1	39	72
7 / 29				.1																	1	1	12	50
23 / 27																							1	42
75 / 25																							3	30
24 / 23																							1	17
2 / 21																								24
25 / 19																								29
18 / 17																								26
16 / 15																								20
14 / 13																								14
12 / 11																								19
1 / 9																								8
8 / 7																								1
TOTAL	.212	.618	.616	.518	.116	.4	8.2	4.7	1.9	.1											802	802	802	802
Element (X)	Σx'		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.	2999225		46571		58.1		19.188		802		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F		Total	
Dry Bulb	1882854		38543		48.1		6.174		802				.2		.2								93	
Wet Bulb	1397830		33182		41.4		5.582		802				6.5										93	
Dew Point	923824		26114		32.0		9.581		802				41.0										93	



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

27104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

YEARS

MAR  
MONTH

PAGE 1

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point	
4/ 83												.1	.1					1	1			
5/ 81												.1		.1				2	2			
6/ 79												.1	.1	.1				3	3			
7/ 77											.2	.3	.1	.3	.1			10	10			
8/ 75										.3		.1	.2	.2	.1			9	9			
9/ 73						.1		.2	.1	.2		.3	.3	.5	.2			19	19			
10/ 71							.1	.2		.5		.3	.3	.3				17	17			
11/ 69					.2	.1	.2	.5	.3	1.1	.4	.9	.1					36	36			
12/ 67						.1	.2		1.4	1.4	.8	.9						44	44			
13/ 65					.3	.6	.8	1.8	1.1	1.4	1.0	.5						70	70	1		
14/ 63					.2	.4	1.6	1.8	1.5	1.2	.3	.1						67	67	1		
15/ 61			.1	.2	.4	2.4	2.0	1.9	1.0	1.6	.6							96	96	3		
16/ 59				.4	1.4	2.3	2.7	1.5	1.1	.8								94	94	11	1	
17/ 57			.3	1.0	1.5	2.4	2.4	1.1	1.4	.8								100	100	18	1	
18/ 55			1.0	1.4	2.9	2.9	1.7	.9	.6	.1								107	107	26	1	
19/ 53		.2	1.1	1.8	2.4	2.4	.8	.6	.4									90	90	51	1	
20/ 51		.2	1.6	1.4	1.3	.8	.4	.5	.1									59	59	133	13	
21/ 49		.1	1.7	.9	1.3	.1	.4	.2										44	44	143	22	
22/ 47		.5	1.3	1.0		.3	.2	.1										32	33	169	37	
23/ 45		.5	1.1	.1	.1		.1	.1										19	19	153	51	
24/ 43		.2	.1	.1		.1	.1											6	6	104	61	
25/ 41		.1	.1															2	2	67	83	
26/ 39			.2															2	2	24	96	
27/ 37																				16	99	
28/ 35																				5	89	
29/ 33																				4	57	
30/ 31																					69	
31/ 29																					44	
32/ 27																					28	
33/ 25																					24	
34/ 23																					23	
35/ 21																					29	
36/ 19																					28	
37/ 17																					25	
Element (X)	Σ <sub>1</sub>		Σ <sub>2</sub>		Σ <sub>3</sub>		Σ <sub>4</sub>		Σ <sub>5</sub>		Σ <sub>6</sub>		Σ <sub>7</sub>		Σ <sub>8</sub>		Σ <sub>9</sub>		Σ <sub>10</sub>		Σ <sub>11</sub>	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						
Mean No. of Hours with Temperature																						
		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total								

USAFETAC FORM 0-26-5 (OLA) REVERSED MIRROR IMAGE OF THIS FORM ARE OBSOLETE



2

## 1

MAR

**YEARS**

**MONTH**

0900-1100

HOURS (L, S, T.)

**USAFETAC**  
FORM  
AA 04  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

1

PAGE 1 1200-1400  
HOURS (L. S. T.)

**USAFETAC** FORM 0-26-5 (OL A) ADVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

MAR

**MONTH**

1200-1400

HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
AUG 64



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

20104 WILLIAMS AFB AZ

70,73-81

MAR

MONTH

PAGE 1 1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point														
89														.1																1	1			
88														.2	.5	.2														8	8			
86												.2	.1	.2	.4	.8														15	15			
84													.1	.4	1.1	.7														19	19			
82												.2	.4	.2	1.6	.5														25	25			
80								.1			.4	.5	1.5	.7	1.1															36	36			
78									.1	.5	.1	.9	1.6	1.8	.5															47	47			
76								.1	.4		1.1	1.6	2.5	.8																55	55			
74									.2	.2	2.3	2.0	1.3	.9																60	60			
72							.4	.1	1.1	1.8	1.9	1.8	2.5																	80	80			
70							.2	.7	1.8	2.1	2.1	1.4	.5																	75	75			
68							.2	1.2	2.1	3.2	.8	2.3	.2																	86	86	1		
66							.7	1.2	.9	1.4	1.2	.5																		50	50			
64					.1	.8	.7	1.5	1.4	.8	.8	.2																		55	55	4		
62				.1	.5	1.4	1.4	1.9	1.3	.6	1.4																			73	73	9		
60				.4	.6	.6	2.0	1.4	.4	.7	.4																			54	54	19	1	
58			.1	.2	.1	1.2	.7	.5	.5	.2																				30	30	29		
56				.6	.4	1.2	.1																							19	19	85		
54		.2	.2	.9	.7	.7		.4																						27	27	155		
52		.1	.4	.5	.2	.1	.2		.2																					15	15	157	9	
50			.5	.1	.1	.5			.1																					11	11	121	5	
48		.4	.2																											5	5	115	21	
46		.2																												2	2	88	25	
44		.1																												1	1	31	2	
42		.1																												1	1	21	45	
40		.1																												1	1	13	72	
38		.4																												3	3		62	
36																																	6	96
34																																		51
32																																		105
30																																		44
28																																		41
26																																		42
24																																		29
Element (X)	Σ g'		Σ g		Σ X		Σ g <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature																							
Ref. Num.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																	
Dry Bulb																																		
Wet Bulb																																		
Dew Point																																		

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

MAR  
MONTH[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70,73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Po				
8/ 87															.1			1	1					
6/ 85														.1	.1			2	2					
4/ 83												.1	.1		.3	.1		5	5					
/ 81															.3			2	2					
/ 79											.3	.6	.3	.4	.8			17	17					
7 / 77									.1	.3	.3	.3	.6	1.4				21	21					
6/ 75									.1	.1	.1	.8	1.7	.6				25	25					
4/ 73								.1	.7	.7	1.3	1.4	1.4					40	40					
/ 71							.3	.6		1.1	1.4	1.5	.6					39	39					
/ 69							.3	.6	.7	1.8	2.4	2.0	.7					60	60					
6/ 67							.3	.8	2.7	2.8	1.1	1.0						62	62					
6/ 65						.1	.8	2.1	2.7	1.4	1.8	.4						67	67					
4/ 63						.3	1.3	1.1	1.7	2.2	1.3							56	56					
/ 61					.7	1.3	2.5	1.4	2.2	1.7	.8							76	.6	5				
/ 59			.3	.3	1.0	1.0	1.3	1.7	1.7	.8	.4							60	60	12				
/ 57			.3	.7	.6	1.5	.8	1.1	.8	.3								44	44	17				
5 / 55			.1	.7	1.5	.4	.7	.6	.6	.3								35	35	31				
4/ 53			.1	.7	1.3	.8	.1	.6	.1									27	27	75				
2/ 51		.3	.7	.8	.7	.1	.4	.1	.1									24	24	137				
6/ 49			1.1	.4		.1	.1	.4										16	16	120				
4 / 47		.7	.4	.1		.1	.1											11	11	92				
4 / 45		1.5	.1	.1	.1													14	14	108				
4/ 43		.1		.1														2	2	62				
2/ 41		.4																3	3	23				
4 / 39																				17				
3 / 37		.4																3	3	6				
6/ 35																				7				
34/ 33																								
2/ 31																								
/ 29																								
2 / 27																								
6/ 25																								
4/ 23																								
2/ 21																								
Element (X)	Σ X²		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



[illegible]



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2114 WILLIAMS AFB AZ

70,73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
71								.3										1	1							
69						.3	.6		.3	.6	.9	.3						10	10							
67							.9		.6	.3	1.2	.3						11	11							
65					.3	.9		.6		.6	1.2	.3						13	13							
63							1.2	2.3	.9	2.6	1.2							28	28							
61				.9		.3	.6	1.8	1.2	1.8	.3							23	23							
59					.6	1.8	1.8	2.0	1.5	1.8								32	32	1						
57			.3	.6	1.2	2.3	2.0	3.2	1.2	1.2								41	41	5						
55			.6	2.3	.9	2.0	1.8	1.8	.6	.3								35	35	8						
53			.3	3.5	.3	2.9	2.7	1.2	2.0									42	42	4						
51		.6	.9	1.2	1.8	2.0		2.6	.6									33	33	22	4					
49		.6	2.6	.6	.9	.9	.9	1.8	.3									29	29	40	8					
47		.9	2.3	.9	.6	1.2	.3	.6										22	22	54	11					
45		1.2	.9	.6	.3	.3												11	11	54	9					
43			.6			.3												3	3	63	27					
41		.3	.3		.3													3	3	32	20					
39		.6	.3															3	3	22	22					
37		.3																1	1	22	28					
35		.3																1	1	11	22					
33																				4	22					
31																					27					
29																					20					
27																					14					
25																					20					
23																					17					
21																					14					
19																					12					
17																					10					
15																					13					
13																					10					
11																					6					
9																					4					
5																					1					
3																					1					
Element (X)	Σ X'		Σ X		Σ		Σ <sub>A</sub>		No. Obs.		Mean No. of Hours with Temperature															
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb																										
Wet Bulb																										
Dew Point																										



[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

21104

WILLIAMS AFB AZ

70,73-81

MAR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
1/ 89													.0	.0	.0			2	2		
3/ 87													.0	.0	.1	.1	.0	13	13		
6/ 85													.0	.1	.1	.1	.2	26	26		
4/ 83													.1	.1	.1	.4	.2	37	37		
1/ 81											.0	.1	.1	.2	.4	.1		45	45		
1/ 79								.1		.0	.2	.3	.5	.3	.4			86	86		
7/ 77									.1	.2	.1	.4	.5	.8	.2			105	105		
6/ 75									.0	.2	.0	.3	.6	1.0	.4			127	127		
4/ 73						.0		.1	.2	.3	1.0	.9	.8	.3				169	169		
1/ 71							.1	.2	.4	1.1	1.0	1.0	.8					222	222		
1/ 69					.0	.0	.3	.4	.8	1.2	1.2	.9	.3					255	255		
8/ 67					.0	.0	.4	.7	1.7	1.6	.8	1.1	.1					309	309	1	
6/ 65					.1	.3	.5	1.3	1.3	1.0	1.1	.4						294	294	6	
4/ 63			.0		.1	.4	1.0	1.3	1.1	1.1	.6	.1						275	275	7	
2/ 61			.0	.2	.4	1.1	1.5	1.5	1.1	1.0	.8							363	363	27	
1/ 59		.0	.1	.4	.9	1.2	1.8	1.2	.9	.6	.2							353	353	64	2
1/ 57			.2	.7	.6	1.6	1.1	.9	.7	.4								296	296	105	5
5/ 55			.4	.9	1.4	1.4	.9	.5	.5	.1								293	293	250	6
4/ 53	.0	.1	.4	1.4	1.2	1.6	.4	.7	.3									290	290	426	4
2/ 51	.0	.2	1.0	1.0	1.1	.9	.4	.5	.2									259	259	636	59
50/ 49		.3	1.6	.9	.8	.6	.4	.4	.0									242	242	607	79
46/ 47		.7	1.2	1.1	.6	.4	.3	.2										226	227	646	122
46/ 45		.9	.9	1.0	.7	.5	.2	.0										203	203	605	192
44/ 43	.1	.5	.6	.4	.2	.3	.3											113	113	476	254
2/ 41		.7	.3	.2	.3	.3	.1											87	87	330	320
4/ 39	.0	.3	.9	.1	.2	.1												61	61	243	447
38/ 37	.0	.4	.1	.1	.1													37	37	153	445
38/ 35		.1	.1	.1	.1													21	21	96	456
34/ 33		.0			.1													5	5	67	328
2/ 31				.0														1	1	50	430
2/ 29				.0														1	1	14	262
26/ 27																				3	210
26/ 25																				3	206
24/ 23																				1	153
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								
Rel. Hum.													≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 104 WILLIAMS AFB AZ

70,73-81

MAR

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
67 / 75											.4							1	1					
64 / 73											.4							1	1					
70 / 71								.4		.4								2	2					
66 / 67								.4		.4								2	2					
66 / 65							.8	.4	.4	.8	.4	.4						8	8					
64 / 63							.4	.8	.4									4	4					
62 / 61						.4	1.7	.8	.8	.4	.4							11	11					
61 / 59			.4			.4	1.2	2.5	1.7									15	15					
61 / 57						1.2	1.2	4.1	.8	.4								19	19	2				
57 / 55			.4			.8	6.2	1.7	.4									23	23	1				
64 / 53				.8	1.2	5.0	4.5	2.1	.4									34	34	5				
62 / 51		.4	.4	.8	.4	2.5	5.4	1.2	.4									28	28	5				
57 / 49			.4	1.7	2.1	3.3	1.2	.8										23	23	14				
61 / 47		.8	.4	.8	2.9	1.2	2.1	.4										21	21	13	3			
61 / 45			.4	.8	2.1	.4												9	9	28	2			
64 / 43		.8	.4	1.7	2.5	2.1												18	18	49	9			
62 / 41		1.2	1.7	.8	.4		.4											11	11	34	4			
61 / 39		.4	1.2	.4	1.2													8	8	39	11			
35 / 37			.4	.4		.4												3	3	21	15			
35 / 35		.4																1	1	20	15			
34 / 33																				5	16			
27 / 31																				5	28			
37 / 29																					32			
29 / 27																				1	28			
27 / 25																					20			
24 / 23																					13			
22 / 21																					16			
27 / 19																					11			
16 / 17																					8			
16 / 15																					4			
14 / 13																					4			
12 / 11																					2			
11 / 9																					1			
Element (X)	ΣX'		ΣX		Σ		Σ <sub>g</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

APR  
MONTH

0300-0500  
HOURS (L. S. T.)

[illegible]



2

## 1

**MONTH**

0600-0800

HOURS (L. S. T.)

**USAFETAC**  
FORM  
JUL 64  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

**ACR**

**MONTH**

0600-0800

1948 (1-3-7)

[illegible]



## PSYCHROMETRIC SUMMARY

2104

WILLIAMS AFB AZ

70,73-81

APR

**MONTH**

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
1/ 89																	.7	6	6		
8/ 87																		7	7		
6/ 85												.1	.2	.1	.4	.1		9	9		
4/ 83												.3	.7	.7	1.0	.1		25	25		
1/ 81											.3	.4	.8	1.8	.9			38	38		
1/ 79										.3	.2	1.3	1.7	1.0	.6			46	46		
7/ 77								.1		.2	.7	1.1	3.0	1.0	.2			57	57		
5/ 75								.1	.1	.2	1.2	2.6	2.2	1.8				74	74		
4/ 73								.1	.1	.6	2.3	3.3	2.0	.4				80	80		
2/ 71						.1	.2		1.0	1.0	3.3	2.2	1.0					80	80		
7/ 69					.1			.4	.8	2.4	2.6	2.2	.1					78	78		
6/ 67						.1	.3	.4	1.2	2.6	1.9	.6						64	64		
6/ 65							.2	1.2	1.9	2.6	1.1	.2						65	65		
4/ 63					.1	.4	.6	1.0	2.0	1.6	.4							55	55	2	
2/ 61					.1	.3	.7	1.2	1.7	1.3	.2							50	50	20	
1/ 59					.1	.6	.8	1.4	1.1	.4								40	40	26	
5/ 57				.2	.7	.4	.7	1.4	.6	.1								37	37	48	
5/ 55				.3	.8	.3	1.1	.7	.1	.1								31	31	106	
4/ 53			.1	.9	.8	.3	.7	.2										27	27	125	
2/ 51			.2	.2		.6	.3											12	12	150	
5/ 49		.1	.4	.1	.3	.1												10	10	151	
4/ 47			.1	.2	.3													6	6	112	
4/ 45			.1	.1														2	2	73	
4/ 43				.1														1	1	51	
2/ 41																				33	
1/ 39																				42	
3/ 37																				56	
5/ 35																				59	
3/ 33																				69	
2/ 31																				90	
1/ 29																				141	
5/ 27																				79	
5/ 25																				82	
4/ 23																				57	
Element (X)	Σx'		Σx		Σx		Σx		Σx		Σx		Σx		Σx		Σx		Σx		
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					



## PSYCHROMETRIC SUMMARY

**YEARS**

**HOURS (1 - 5 - 7)**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

27104

WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
95/ 95																	.3	3	3					
94/ 93																.2	.2	4	4					
92/ 91														.1		.2	1.6	17	17					
91/ 89													.1	.1	.6	.4	1.1	21	21					
89/ 87												.1	.1	1.6	1.0	2.1	1.0	52	52					
86/ 85											.1	.6	1.6	1.7	3.0			62	62					
84/ 83											.6	.6	2.0	4.1	1.9			82	82					
82/ 81											.3	1.1	3.7	4.4				86	86					
81/ 79									.1	.1	1.2	3.0	3.0	2.0				85	85					
78/ 77							.1	.1	.1	.7	1.4	2.4	2.9	.6				75	75					
76/ 75							.1	.1	.2	.7	1.3	3.4	1.6					67	67					
74/ 73								.1	.4	.9	2.0	1.6	1.0					54	54					
72/ 71								.2	.8	.6	1.4	2.3	.4					52	52					
71/ 69								.3	.2	.9	1.9	1.8	.1					47	47					
68/ 67							.2	.2	.9	1.3	1.2	.7	.1					42	42					
66/ 65						.2	.3	.2	.6	1.0	1.4	.1						35	35		2			
64/ 63							.2	.3	.6	1.1	.4	.1						25	25		7			
62/ 61					.1	.2	.3	.2	1.3	.7	.2							28	28		42			
61/ 59					.2	.3	.2	.7	.7	.3								22	22		62			
60/ 57				.1	.2	1.0	.2	.2	.1									17	17		125			
58/ 55					.7	.1	.2		.1									10	10		163			
54/ 53			.1	.1	.2	.3	.1											8	8		136			
52/ 51			.1			.1												2	2		132			
50/ 49					.2													2	2		90			
48/ 47		.1																1	1		67			
46/ 45				.1														1	1		48			
44/ 43																					15			
42/ 41																					9			
40/ 39																					2			
38/ 37																								
36/ 35																								
34/ 33																								
32/ 31																								
30/ 29																								
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Num.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								



2

27104 WILLIAMS AFB AZ

70,73-81

APP

**MONTH**

PAGE 2

1200-1400

HOURS (L. S. T.)

**USAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
5/ 95																	.7	6	6				
4/ 93															.1	.1	1.0	10	10				
7/ 91														.2	.1	.5	1.7	21	21				
1/ 89															1.3	1.7	4.1	59	59				
8/ 87														.8	1.9	4.6	1.4	73	73				
6/ 85												.1	.6	1.7	1.9	5.7		83	83				
4/ 83												.1	.5	1.1	4.9	3.4		83	83				
1/ 81												.4	1.0	3.1	5.3			81	81				
1/ 79										.1	.1	.2	1.3	2.8	3.9			70	70				
7/ 77									.1		.4	.8	1.9	2.3	.5			50	50				
6/ 75											.4	1.7	1.3	1.3				39	40				
4/ 73										.1	.5	1.6	2.0	.4				38	38				
3/ 71								.1	.1	.5	1.6	1.4	1.3					42	42				
1/ 69								.1	.2	.4	.7	1.4	.5					28	28				
1/ 67							.1		.4	1.2	1.0	1.0	.1					31	31				
6/ 65							.1		.8	1.3	.8	.1						27	27	6			
4/ 63								1.0	.5	.8	1.0							27	27	4			
2/ 61					.1	.1	.2	.1	.4	.4	.4							14	14	43			
1/ 59					.1	.7	.4	.4	.5	.1								18	18	73			
1/ 57				.1	.1	.6	.1	.4										11	11	132			
5/ 55				.1	.4	.1	.4	.1										9	9	158			
4/ 53			.1	.4														4	4	126			
2/ 51				.1														1	1	96	1		
1/ 49			.1															1	1	84	4		
5/ 47		.1																1	1	46	5		
4/ 45			.2															2	2	46	13		
4/ 43			.1															1	1	11	14		
2/ 41																				2	35		
4/ 39																				3	24		
2/ 37																					47		
5/ 35																					49		
3/ 33																					62		
2/ 31																					109		
1/ 29																					83		
Element (X)	Σ X <sup>2</sup>		Σ X		Σ	Σ X		Σ	Σ X		Σ	Σ X		Σ	Σ X		Σ	Σ X		Σ	Σ X		Σ
Rel. Hum.																							Total
Dry Bulb																							
Wet Bulb																							
Dew Point																							

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

1

APR  
MONTH

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

214 WILLIAMS AFB AZ

70,73-81

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
4/ 93																	.1	1	1	
4/ 91														.1	.1	.3	.3	6	6	
4/ 89														.1	.3	.4	.8	12	12	
8/ 87														.3	1.0	2.4	.3	28	28	
6/ 85													.6	1.1	1.3	2.5		39	39	
4/ 83										.1			.8	1.6	3.4	.7		47	47	
4/ 81										.1		.4	1.0	2.8	4.0	.1		60	60	
4/ 79										.1	.1	.6	2.1	3.8	1.8			61	61	
7/ 77											.1	1.0	3.4	3.7	.6			62	62	
6/ 75										.3	.6	2.8	2.5	2.4				61	61	
4/ 73									.3	.1	1.1	1.3	2.7	.4				42	42	
4/ 71									.4	.4	2.7	3.0	.6					50	50	
4/ 69							.1		.3	.6	2.5	2.1	.3					42	42	
6/ 67							.1	.1	.1	1.7	2.4	.7	.1					38	38	
6/ 65								.1	.4	1.6	.8	.7						26	26	1
4/ 63							1.0		.7	1.0	1.6							30	30	6
4/ 61						.3	.7	.8	.4	1.6	.3							29	29	15
4/ 59					.4	.8	.1	1.0	.3	.3								21	21	37
4/ 57					.3	.4	.4	.8	.4									17	17	71
5/ 55					.4	.3	.7	.1	.1									12	12	97
4/ 53				.1		.3	.1											4	4	116
2/ 51			.3		.1	.1												4	4	119
4/ 49		.3		.1	.1													4	4	90
4/ 47		.4	.6															7	7	59
4/ 45				.4														3	3	53
4/ 43																				19
2/ 41																			8	28
4/ 39																		4	4	33
2/ 37																				27
4/ 35																				41
3/ 33																				45
2/ 31																				114
4/ 29																				66
4/ 27																				72
Element (X)	Σ X'		Σ X		Σ	Σ	No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.									≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																				
Wet Bulb																				
Dew Point																				

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

APR

**YEARS**

PAGE 2      1800-2000  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

APR  
MONTH

PAGE 1

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
4/ 83												.3	.3		.3			3	3					
7/ 81												.6	.3	.3				4	4					
7/ 79										.3		1.4	.9					9	9					
7/ 77											.6	1.4	.6	.3				10	10					
8/ 75										.3		1.2	1.2	.3				10	10					
4/ 73										.6	1.7	2.0	2.3	.3				24	24					
7/ 71										.3	3.5	1.4	.6					20	20					
7/ 69								.6		1.4	4.0	1.4	.9					29	29					
8/ 67						.3		.6	1.2	3.8	2.0	.9						30	30					
6/ 65							.6	.3	2.3	4.6	3.2	.3						39	39					
4/ 63					.3			1.7	3.8	3.2	1.7							37	37					
2/ 61						.3	.9	1.7	1.7	.9								19	19		2			
7/ 59						1.2	1.2	1.2	1.7	2.6								27	27		5			
5/ 57				.6	1.4	.3	.9	1.7	1.7	.3								24	24		9			
5/ 55				.3	.3	1.2	.3	1.7	.6	.3								16	16		19			
4/ 53				.3	.9	2.0	1.2	.9										18	18		20			
2/ 51			.3	.3	.6	.9	.3											8	8		48			
5/ 49			.6	.9	.6	.3	.3											9	9		67			
6/ 47		.6	.6															4	4		48			
4/ 45		.6	.3	.3														2	2		50			
4/ 43		.6	.6															3	3		43			
2/ 41			.6															1	1		24			
4/ 39																					11			
3/ 37																								
7/ 35																								
34/ 33																								
2/ 31																								
7/ 29																								
28/ 27																								
15/ 25																								
24/ 23																								
2/ 21																								
7/ 19																								
16/ 17																								
Element (X)	Σ H <sup>1</sup>		Σ H		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total	
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F			Total			
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

APR

**MONTH**

2100-2300

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
7 / 15																					9
4 / 13																					6
1 / 11																					3
TOTAL		1.2	2.3	2.6	4.0	6.4	5.5	10.4	13.0	18.5	16.8	11.0	6.9	1.2	.3				346		346
																		346		346	
																		</			



## PSYCHROMETRIC SUMMARY

APR

**MONTH**

ALL

HOURS (L. S. T.)

[illegible]



2

1

70,73-81

APR

**MONTH**

ALL

HOURS (L, S, T.)

**PAGE 2**

STATION

STATION NAME

YEARS

**JSAFETAC**  
FORM  
JAN 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



**USAFETAC**  
FORM  
28-44  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 174

WILLIAMS AFB AZ

70.73-81

MAY

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

0600-0800

HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

70,73-81

MAY

**MONTH**

PAGE 2

0600-0800

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATMOSPHERIC WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

70,73-81  
YEARS

YEARS

MAY  
MONTH

PAGE 1

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
2/ 99																	.1	1	1					
3/ 97																	.2	2	2					
6/ 95																	.4	4	4					
4/ 93																	.3	.8	10	10				
7/ 91												.3	.1	.1	.1	1.0	1.0	19	19					
7/ 89												.3	.1	.1	.8	1.2	.4	27	27					
9/ 87											.1	.2	.4	.7	2.2	2.8	.7	64	64					
6/ 85											.2	.4	.6	2.3	3.0	2.4		81	81					
4/ 83									.1	.3	.1	.8	2.5	3.6	2.8	.9		101	101					
7/ 81									.6	.2	.2	1.3	2.3	3.6	2.3			96	96					
7/ 79							.1	.3	.4	.7	.7	2.2	3.4	3.7	.7			111	111					
7 / 77							.2	.1	.1	.1	2.1	2.2	2.6	2.4	.2			92	92					
6/ 75					.1		.2	.4		.9	1.2	2.5	2.6	.3				76	76					
7/ 73				.1		.1	.2	.2	.4	1.0	1.5	2.2	.6	.2				60	60					
7/ 71						.1		.2	.8	1.0	1.3	.7	.3					40	40					
7/ 69					.1		.8	.2	.6	.4	.8	.4						30	30					
7/ 67					.1	.4	.1	.4	.4	.1	.8	.6						27	27	12				
6/ 65					.3	.1	.3	.6	.1	.4	.3	.1						21	21	17	1			
4/ 63				.2	.3	.1	.3	.1	.3	.4	.4							21	21	37	1			
2/ 61					.2	.3	.2		.3	.3								10	10	73	1			
7/ 59				.4	.1	.1	.2	.3		.2								13	13	110	2			
5/ 57		.1																1	1	203	12			
50/ 55																				178	14			
4/ 53																				137	15			
2/ 51																				70	15			
5/ 49																				33	20			
6/ 47																				20	18			
40/ 45																				12	34			
44/ 43																				7	42			
42/ 41																				1	58			
4 / 39																					76			
30/ 37																					85			
30/ 35																					87			
34/ 33																					79			
Element (X)	Σ X'			Σ X			Σ			Σ <sub>n</sub>			No. Obs.			Mean No. of Hours with Temperature						Total		
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F			
Dry Bulb																								
Wet Bulb																								
Dew Point																								



2

●

70,73-81

MAY

**MONTH**

0900-1100

HOURS (L. S. Y.)

**USAFETAC**  
FORM  
B-1 4-4  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

2

MAY

STATION

STATION NAME

**YEARS**

**MONTH**

**HOURS (L - S - T.)**

USAFETAC  
FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







## PSYCHROMETRIC SUMMARY

214

WILLIAMS AFB AZ

70,73-81

MAY

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

1500-1700

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb	Dew Point	
1 / 107																	.1	1	1			
1 / 105																	.2	2	2			
1 / 103																	1.0	8	8			
2 / 101																	1.7	14	14			
3 / 99																	2.5	21	21			
3 / 97																.2	4.3	38	38			
4 / 95																.1	5.3	43	43			
4 / 93														.4	.4	1.1	9.5	94	94			
5 / 91													.2	.2	1.2	1.2	7.1	83	83			
5 / 89													.7	1.1	2.3	4.2	7.7	133	133			
6 / 87											.1	.4	.5	1.2	1.8	4.8	2.8	96	96			
6 / 85										.2	.4	.1	1.3	2.2	5.3			79	79			
7 / 83									.1	.1	.2	.6	1.1	2.3	.5			41	41			
7 / 81									.6	.2	.8	1.7	.5	1.3	.5			47	47			
7 / 79									.1	.1	.2	.5	.8	.8	.4			25	25			
7 / 77									.1		.5	1.0	.6	1.0	.5			30	30			
8 / 75								.1	.1	.1	.6	.6	.6					18	18			
8 / 73								.6	.4	.7	.5	.2						20	20			
9 / 71						.1		.4	.6	.4	.4	.2	.2					17	17			
9 / 69						.1		.1	.1	.2	.1	.2	.2					9	9			
10 / 67							.2				.4	.1						4	4	20		
10 / 65							.2					.1						3	3	49		
11 / 63					.1	.1												2	2	84		
11 / 61				.2														2	2	144		
12 / 59			.1	.1	.1													3	3	189		
12 / 57			.1															1	1	171		
13 / 55																				89	4	
14 / 53																				46	15	
15 / 51																				26	13	
15 / 49																				6	14	
16 / 47																				6	14	
16 / 45																				4	41	
17 / 43																					23	
17 / 41																					42	
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Num.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						



2

4

YEARS

MAY

**MONTH**

PAGE 2

1500-1700

**HOURS (L, S, T.)**

FORM  
JUL 64

**USAFETAC**







## PSYCHROMETRIC SUMMARY

MAY

YEARS

PAGE 2 1800-2000

HOURS (L. S. T.)

[illegible]



USE WITH CAUTION  
SEE FIRST PAGE

## PSYCHROMETRIC SUMMARY

214

WILLIAMS AFB AZ

70,73-81

MAY

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

2100-2300

HOURS (L, S, T,)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
1 / 91																.3		1	1													
1 / 89																.3		2	2													
8 / 87														.3		1.3	.8	9	9													
6 / 85												.3		.5	1.8	1.0		14	14													
4 / 83									.3				.8	.8	2.3	.3		17	17													
1 / 81											.5	.3	2.3	5.2	1.6			38	38													
1 / 79										.3		2.8	3.6	3.9	.8			47	47													
7 / 77							.3	.3		1.6	1.0	3.9	3.1	1.6	.3			46	46													
6 / 75									.3		2.1	5.4	5.7	1.8				59	59													
4 / 73						.3			.5	.5	2.1	3.4	1.0	.3				31	31													
1 / 71						.5			1.6	1.0	4.4	1.0	1.0					37	37													
1 / 69				.3				.8	1.3	1.0	.8	1.6						22	22													
1 / 67					.3	.5		.8	.5	2.3	.8	.3						21	21	1												
6 / 65				.3			1.0	1.0	.3	1.6		.5						18	18	2												
4 / 63				.5		.8	.3		.3	.5								11	11	6												
1 / 61							.3		.3	.3		.3						3	3	11	1											
1 / 59			.3			.3			.3	.3	.3							5	5	24	2											
1 / 57			.3							.5								3	3	56	1											
5 / 55			.5					.3										3	3	89	3											
4 / 53																				77	3											
2 / 51																				67	5											
5 / 49																				25	6											
1 / 47																				16	7											
4 / 45																			3		14											
4 / 43																				4	15											
2 / 41																			6		15											
4 / 39																					21											
3 / 37																					28											
1 / 35																					41											
3 / 33																					38											
2 / 31																					59											
3 / 29																					35											
1 / 27																					31											
1 / 25																					21											
Element (X)	Σ x'		Σ x		Σ		Σ <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature																					
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total									
Dry Bulb																																
Wet Bulb																																
Dew Point																																



2.

## PSYCHROMETRIC SUMMARY

70,73-81

MAY

**MONTH**

PAGE 2

2100-2300

HOURS (L, S, T.)

[illegible]

**USAFETAC**  
FORM  
JUL 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

MAY

YEARS

ALL

HOURS (L. S. T.)

[illegible]



2

1

MAY

**MONTH**

ALL

HOURS (L, S, T.)

**USAFETAC**



Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
89													.4					1	1					
87														.4				1	1					
85													.4					1	1					
83											.4	.4	1.3					5	5					
81										.4	.8	1.3						6	6					
79								.4	.4	1.7	1.3	1.3	.4	.4	.4			12	12					
77									.4	1.3	1.3	1.7	2.9					18	18					
75							.4			1.3	1.3	1.7	.8					13	13					
73						.4	.4	.8	.4	2.9	2.5	1.3	1.3	.4				25	25					
71			.4					.8	.4	4.2	2.9	2.5	.4					28	28					
69						.4	.4	.8	2.5	1.3	2.9	1.7	.4					25	25					
67						.8	.4	1.3	4.6	3.8	2.9	2.5						39	39	1				
65				.4				1.3	1.3	5.0	1.3	1.3						25	25	4	1			
63				.4				.8	1.7	3.8	1.3							19	19	7				
61					.8		.4		2.9	.8								12	12	10				
59								.4	.4	.8								4	4	11				
57								.4	.4	.4								2	2	19	3			
55						.4		.4										2	2	25	2			
53																				40	4			
51																				28	6			
49																				32	6			
47																				25	7			
45																				26	9			
43																				7	10			
41																				3	13			
39																					22			
37																					13			
35																					19			
33																					14			
31																					21			
29																					16			
27																					17			
25																					13			
23																					10			
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

JUN

**YEARS**

**MONTH**

0300-0500

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 2104 WILLIAMS AFB AZ

69-70,73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point					
6/ 95															.1		.3	3	3						
4/ 93														.4	.1		.3	6	6						
2/ 91														.4	.4			6	6						
0 / 89										.3	.3	.9	.5	1.0	.4	.1	27	27							
8/ 87											.5	1.3	1.0	1.4	.5		37	37							
6/ 85									.3	.6	1.0	1.0	1.3	.8	.6		44	44							
4/ 83									.3	.3	.4	1.2	1.6	2.5	1.0		55	55							
2/ 81									.3	.8	1.2	1.4	3.0	1.4			62	62							
7 / 79						.1	.3	.6	1.2	1.4	1.6	2.8	2.5	.6			86	86							
7 / 77					.1	.4	.6	.1	.5	2.1	2.2	3.1	1.3				81	81							
6/ 75					.1		.4	.6	2.1	1.6	1.9	1.8	.3				68	68							
4/ 73						.1	.1	.1	.6	1.6	1.4	3.0	.4	.4			60	60							
2/ 71						.3	.1	.5	1.4	1.3	2.5	2.3	.1				66	66							
7 / 69			.1		.1	.1	.5	1.0	1.3	2.5	1.0	.4					55	55				4			
6 / 67					.1	.4	.3	.9	1.4	1.4	1.4	.5					50	50				14			
6/ 65				.1	.1	.1	.1	.6	.3	1.3	.8						27	27				33			
4/ 63							.4	.9	1.0	.4							21	21				45			
2/ 61				.1	.1		.3	.1	.9	.1							13	13				60			
7 / 59								.4									3	3				85			
6/ 57								.3									2	2				103			
5 / 55						.1											1	1				116			
4/ 53																						105			
2/ 51																						84			
5 / 49																						54			
4/ 47																						35			
4/ 45																						31			
4/ 43																						4			
2/ 41																									
4 / 39																									
3/ 37																									
5/ 35																									
3/ 33																									
2/ 31																									
3 / 29																									
Element (X)	Σ H'		Σ H		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total				
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 104	WILLIAMS AFB AZ
STATION	STATION NAME

69-70, 73-80

YEARS

JUN

PAGE 2      0600-0800  
HOURS (L. S. T.)

[illegible]



2

1

449.

**MONTH**

;

USAFETAC FORM 0-26-5 (OLA) REVISYD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64



## PSYCHROMETRIC SUMMAR

2 104 WILLIAMS AFB AZ

69-70, 73-80

JUN

STATION

STATION NAME

YEARS

MONTH

PAGE 2      C900-110  
HOURS (L. S. T.)

[illegible]



2

1

**MONTH**

1200-14JC

**HOURS (L, S, T.)**

ALL OTHERS ARE NOT FINAL AND THEREFORE OFFICIAL

**0-26-5 (OL A)**

**W** **M**

**USAFETAC**



## PSYCHROMETRIC SUMMARY

2 104

WILLIAMS AFB AZ

69-70, 73-80

JUN

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

1200-1400

HOURS (L. S. T.)

[illegible]



2

●

JUN

**MONTH**

4

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
AUG 64



## PSYCHROMETRIC SUMMARY

69-70, 73-80

**JUN**

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

1500-1700

HOURS (L. S. T.)

[illegible]



2



JUN  
MONTH

1800-2000  
HOURS (L. S. T.)

**USAFETAC**  
FORM  
AA 64  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 174

WILLIAMS AFB AZ

69-70, 73-80

**JUN**

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

1800-2000

**HOURS (L. S. T.)**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2004 WILLIAMS AFB AZ

69-70,73-80

YEARS

JUN  
MONTH  
PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
4/ 103																	.2	1	1	
2/ 101																	.5	2	2	
0/ 99																	1.5	6	6	
8/ 97																.2	1.2	6	6	
6/ 95														.2	.7	1.2	4.5	27	27	
4/ 93															2.0	2.7	3.2	32	32	
2/ 91											.2			.5	2.0	2.7	2.7	33	33	
0/ 89												.2		1.5	4.2	1.2	2.2	38	38	
8/ 87										.5	.2	.2	1.0	1.7	3.2	4.5	1.0	50	50	
6/ 85												1.5	2.0	2.0	6.0	3.7		61	61	
4/ 83										.2		1.0	2.0	2.7	3.7	1.0		43	43	
2/ 81										.2	.2	.7	2.0	5.0	1.5			39	39	
0/ 79											.5	1.5	2.0	2.2				25	25	
7/ 77									.2		.5	1.7	1.7	1.2				22	22	
5/ 75												.2	1.5					7	7	
4/ 73								.2	.2			.2	.5					5	5	
2/ 71											.5							2	2	1
0/ 69							.2					.2						2	2	5
5/ 67																				13
6/ 65																				25
4/ 63																				59
2/ 61																				59
0/ 59																				59
8/ 57																				90
6/ 55																				60
4/ 53																				21
2/ 51																				8
0/ 49																				1
4/ 47																				18
2/ 45																				27
0/ 43																				31
8/ 41																				30
6/ 39																				38
4/ 37																				30
Element (X)	Σ X'	Σ X	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Mean No. of Hours with Temperature		
Rel. Hum.																		≤ 0 F	≤ 32 F	≤ 67 F
Dry Bulb																		≤ 73 F	≤ 80 F	≤ 93 F
Wet Bulb																		Total		
Dew Point																				

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

69-70, 73-80

JUN

STATION NAME

**YEARS**

**MONTH**

PAGE ? 2100-2300

HOURS (L, S, T.)

[illegible]

**USAFETAC**  
FORM  
AF 44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

JUN

YEARS

**MONTH**

411

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
11- /117																		.0	1	1															
11- /115																		.1	4	4															
11- /113																		.0	1	1															
11- /111																		.5	25	25															
11- /109																		1.0	47	47															
11- /107																		1.7	82	82															
11- /105																		3.4	160	160															
11- /103																.0		4.8	227	227															
12- 2/101															.0	.0		6.2	295	295															
12- 6/ 99															.1	.5		5.0	264	264															
12- 9/ 97														.1	.1	.4		6.2	321	321															
12- 16/ 95												.0		.2	.6	.8		6.2	371	371															
12- 14/ 93												.1	.1	.4	.9	1.3		5.8	405	405															
12- 17/ 91											.0	.0	.1	.6	1.2	1.9		3.4	341	341															
12- 17/ 89											.1	.1	.3	.8	1.6	1.9		1.9	323	323															
12- 18/ 87										.1	.1	.4	.7	1.1	1.4	1.7		.4	275	275															
12- 16/ 85										.0	.3	.4	1.0	1.3	1.5	1.2	.0		276	276															
12- 14/ 83								.0	.1	.1	.3	.6	1.0	1.2	.9	.2			209	209															
12- 12/ 81						.0	.1	.0	.0	.1	.4	.7	.7	1.2	.6	.0			179	179															
12- 17/ 79				.0	.1	.1	.2	.5	.5	.5	.5	.8	1.0	.1					185	185															
12- 13/ 77				.0	.0	.1	.1	.1	.2	.6	.7	.9	.3						139	139															
12- 16/ 75			.0	.0	.0	.1	.2	.5	.4	.5	.5	.1							108	108	1														
12- 14/ 73			.0	.0	.0	.1	.1	.3	.4	.6	.2	.1							95	95	16														
12- 12/ 71		.0	.0	.1	.0	.1	.3	.4	.6	.5	.0								101	101	93														
12- 17/ 69		.0	.0	.0	.1	.1	.3	.4	.5	.3	.1								82	82	288	1													
12- 16/ 67		.0	.0	.1	.1	.2	.5	.4	.4	.2									91	91	429	1													
12- 16/ 65		.0	.0	.0	.0	.2	.1	.9	.2	.1									52	52	626	5													
12- 14/ 63		.0	.0	.1	.1	.2	.4	.4	.1										40	40	632	9													
12- 12/ 61		.0	.1	.1	.1	.0	.3	.1											25	25	792	6													
12- 17/ 59		.0	.0	.1	.1	.0	.2	.0											7	7	606	16													
12- 16/ 57		.0	.0	.1	.1	.0	.1												4	4	429	31													
12- 15/ 55		.0	.0	.0	.0	.0	.0												3	3	290	49													
12- 14/ 53																					193	87													
12- 2/ 51																					124	140													
Element (X)	Σ R <sup>2</sup>		Σ R		Σ		σ <sub>R</sub>		No. Obs.		Mean No. of Hours with Temperature																								
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 86 F		≤ 93 F		Total												
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			



## PSYCHROMETRIC SUMMARY

2 154  
-----  
STATIC

WILLIAMS AFB AZ  
STATION NAME

69-77,73-80

YEARS

JUN  
MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2104

WILLIAMS AFB AZ

69-70,73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
91												.8	.4					3	3					
89											.4			.4				2	2					
87											.8	2.4	.8					10	10					
85								.8	1.6	3.3	4.1	.8	.8					28	28					
83							.4	3.3	3.7	2.0	2.0	1.6	.8					34	34					
81					.4	.8	2.0	5.3	1.2	2.0	1.6	1.2						36	36					
79					.4	1.2	2.4	6.1	2.9	1.6	.8	.8						40	40					
77					.4	1.6	3.7	1.2	1.6	.4	.4	.4	.4					25	25					
75				2.4	2.4		2.0	1.2	2.0	.4	1.2	.8						31	31					
73			.8	1.2		.8			.4		.8	.8	.4					13	13	1				
71				1.6		.4	.4		.4		.8	.8						11	11	7				
69					.4		.4		.8	.4	.8	.4	.4					9	9	41	2			
67							.4		.4									2	2	57	9			
65								.4										1	1	43	14			
63																				38	14			
61																				17	27			
59																				8	34			
57																				10	25			
55																				3	21			
53																				7	22			
51																				8	15			
49																				4	13			
47																				1	9			
45																					7			
43																					5			
41																					4			
39																					6			
37																					1			
35																					4			
33																					1			
31																					3			
29																					3			
27																					2			
25																					2			
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total					
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70, 73-80

**YEARS**

JUL  
MONTH

PAGE 2

0300-0500  
HOURS (L. S. T.)

[illegible]



2

[illegible]



## PSYCHROMETRIC SUMMARY

2 104	WILLIAMS AFB AZ
STATION	STATION NAME

67-72, 73-80

YEARS

PAGE 2

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

69-70, 73-80

JUL

MONTH

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL																				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																	
1 / 105																	.3	3	3																			
1 / 103																.1	.3	.9	12	12																		
2 / 101																.1	.2	1.0	12	12																		
3 / 99														.7	1.4	1.2	1.1	40	40																			
4 / 97												.1	.3	2.2	2.5	1.7	1.3	74	74																			
6 / 95											.1	1.0	2.4	3.4	2.3	1.0	1.3	105	105																			
4 / 93											.6	3.0	4.8	3.8	2.0	1.0	1.2	147	147																			
1 / 91										.7	3.2	3.8	5.0	2.0	.4	1.1	.9	154	154																			
1 / 89									.4	2.0	4.5	2.7	.9	1.1	.9	.8	.3	123	123																			
8 / 87							.1	.3	1.3	4.0	2.2	1.1	.6	.8	1.1	.1		105	105																			
6 / 85								.8	2.2	1.9	.9	.2	.3	.1				58	58																			
4 / 83							.4	1.4	1.3	.7		.1	.1		.1			38	38																			
1 / 81						.4	.7	1.1	.1	.1								22	22																			
1 / 79					.2	.4	.2	.1	.1									10	10																			
5 / 75						.1												1	1	7																		
4 / 73																				56																		
1 / 71																				210																		
1 / 69																				269	1																	
5 / 67																				176	16																	
6 / 65																				75	31																	
4 / 63																				45	64																	
2 / 61																				43	121																	
1 / 59																				19	126																	
1 / 57																				4	119																	
5 / 55																					105																	
4 / 53																					76																	
2 / 51																					55																	
5 / 49																					35																	
1 / 47																					31																	
4 / 45																					26																	
4 / 43																					20																	
2 / 41																					13																	
4 / 39																					14																	
30 / 37																					16																	
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		No. Obs.																	
Rel. Hum.																																						
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						
Mean No. of Hours with Temperature																																						
		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F																										

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE







GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

69-70, 73-80

JUL

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
12/111																	.1	1	1		
11/109																	.6	5	5		
10/107																	1.5	14	14		
9/105																.2	4.3	41	41		
8/103														.1	.4	2.1	5.5	74	74		
7/101													.1	.4	2.0	3.6	5.0	101	101		
6/99													.3	2.5	6.7	3.5	4.7	162	162		
5/97												.2	1.9	3.6	5.4	2.2	4.1	158	158		
4/95											.4	1.0	3.4	4.0	2.2	.6	1.4	118	118		
3/93											.3	2.9	3.0	3.3	.7	.6	.3	100	100		
2/91										.6	2.1	2.6	1.5	.4	.2	.3		71	71		
1/89									.3	1.0	1.5	.6		.1	.1			33	33		
8/87									.6	1.1	.4	.1						20	20		
6/85								.1	.1	.1								3	3		
4/83						.1	.1	.1	.1									4	4		
1/81						.1												1	1		
7-1/77																					3
5/75																					27
4/73																					151
2/71																					290
1/69																					217
6-1/67																					114
6/65																					48
4/63																					57
2/61																					15
1/59																					1
5-1/57																					
5-1/55																					107
4/53																					86
2/51																					72
5/49																					34
4-1/47																					30
4-1/45																					24
4/43																					27
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																					Total
Dry Bulb																					
Wet Bulb																					
Dew Point																					



2

## 1

**MONTH**

1200-1400

HOUSES (L. S. T.)

**USAFETAC**  
FORM  
NA 64  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

21174 WILLIAMS AFB AZ  
STATION STATION NAME

69-70,73-80  
YEARS

JUL  
MONTH  
PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
12/111																		.5	4	4		
11/109																		3.4	29	29		
10/107																		.1	5.2	45	45	
9/105																		.6	10.6	94	94	
8/103														.1				2.5	11.3	117	117	
7/101													.1	1.1	2.4			6.8	8.8	161	161	
6/99													.5	1.4	3.3			3.3	4.8	112	112	
5/97												.6	1.5	3.1	3.7			1.7	2.0	106	106	
4/95											.1		2.4	3.6	1.5			.4	.6	72	72	
3/93											.1	1.5	2.4	1.2				.1		45	45	
2/91									.1		.2	.8	1.0	.6						23	23	
1/89									.1	.5	.6	.1								11	11	
8/87									.1	.2	.6	.2								10	10	
6/85									.2	.5										6	6	
4/83									.1	.1										2	2	
2/81						.1	.1													2	2	
1/79						.1		.1												2	2	
7/77																					6	
6/75																				39		
4/73																				140		
2/71																				292	1	
1/69																				202	1	
10/67																				94	5	
8/65																				46	18	
4/63																				21	36	
2/61																				1	45	
1/59																					94	
10/57																					116	
5/55																					125	
4/53																					101	
2/51																					70	
1/49																					55	
4/47																					29	
4/45																					33	
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						



## PSYCHROMETRIC SUMMARY

JUL

**MONTH**

PAGE 2 1500-1700

1500-1700

[illegible]



2

## 1

JUL

**MONTH**

1800-2000

**HOURS (L. S. T.)**

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 104

WILLIAMS AFB AZ

69-70, 73-80

JUL

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

1800-2000

1000 200  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

USE WITH CAUTION  
SEE FIRST PAGE  
69-70, 73-80

WILLIAMS AFB AZ

JUL

**MONTH**

PAGE 1

2100-2300

HOUSE (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
10/ 105																	.5	2	2				
2/ 101																.7	.7	6	6				
10/ 99															1.0	2.0	1.7	19	19				
8/ 97													.2	.7	3.0	2.7	1.2	32	32				
6/ 95											.2	1.7	4.0	2.5	2.5	1.2	.49	49	49				
4/ 93									.2	.2	2.7	2.5	5.9	3.0	1.5	.2	.66	66	66				
2/ 91								.2	.5	1.7	4.0	3.5	3.5	1.5	.2	.5	.63	63	63				
1/ 89								.7	.7	2.0	4.2	4.0	1.5	1.0	.7	.2	.58	58	58				
8/ 87								.7	1.7	2.5	1.5	1.5	.2	.5	.7		.38	38	38				
6/ 85							.2	1.5	1.7	.7	.2	.2	1.0	.7			.26	26	26				
4/ 83							.5	.7	1.7	1.0	.2			.2			.18	18	18				
2/ 81						.7	.2	.7	1.0								.11	11	11				
1/ 79				.2		1.2	.5	.7						.2			.12	12	12				
7:31/ 77				.2	.2	.7											.4	4	4				
6/ 75				.2													.1	1	1		3		
4/ 73																					7		
2/ 71																					64		
1/ 69																					110		
6:55/ 67																					116		
6/ 65																					55		
4/ 63																					23		
2/ 61																					8		
1/ 59																					13		
6:55/ 57																					5		
5:05/ 55																					1		
4/ 53																							
2/ 51																							
5:1/ 49																							
4:55/ 47																							
4:55/ 45																							
4/ 43																							
2/ 41																							
4:35/ 39																							
3:55/ 37																							
Element (X)	Σ X²		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							



2

## PSYCHROMETRIC SUMMARY

**MONTH**

2 4 0 0    2 5 0  
HOURS (L, S, T.)

[illegible]



2

0-20-0 (02 M)  
 0-20-0 (02 M)  
 0-20-0 (02 M)

69-70, 73-80

JUL

**MONTH**

PAGE 1

ALL

**HOURS (L, S, T.)**

[illegible]



2

PAGE 2

JUL

**MONTH**

ALL

ALL  
HOURS (L. S. T.)

**USAFETAC**  
FORM  
2-6-5 (QLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2 174 WILLIAMS AFB AZ

69-70,73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥ 31	Dry Bulb	Wet Bulb	Dew Point	
/ 89												.4						1	1			
8/ 87									.4	.4		.4						3	3			
6/ 85									2.0	1.6	.8							11	11			
4/ 83							1.2	2.4	3.6	2.0	.8	.4						26	26			
/ 81					.4	.4	3.2	3.6	6.5	2.4	1.6							45	45			
/ 79					1.2	2.0	2.0	3.6	2.8	.8	2.0							36	36			
7 / 77					.8	2.0	1.2	3.6	2.0	1.6	.4	.8						31	31			
5/ 75				1.2	.4	1.2	.8	2.8	2.8	4.0	1.6							37	37			
4/ 73				.8	.4		.8	2.0	.8	1.6	.8							18	18	2		
/ 71				.4	.4	.4		.8	1.6	1.6	.8	.4						16	16	12	1	
/ 69						.4	.4	.8	.8	1.6	.4	.4						12	12	35	3	
/ 67					.4	.4			.8	.8	.4							7	7	38	3	
6/ 65						.4		.8										3	3	37	14	
4/ 63							.4											1	1	28	18	
/ 61																				18	20	
/ 59																				24	26	
/ 57																				17	22	
5 / 55																				13	23	
4/ 53																				11	24	
2/ 51																				7	12	
5 / 49																				5	11	
4/ 47																					14	
48/ 45																					12	
4/ 43																					6	
2/ 41																					8	
4 / 39																					6	
38/ 37																					8	
2/ 35																					5	
34/ 33																					3	
2 / 29																					3	
28/ 27																					2	
26/ 25																					1	
TOTAL				2.4	4.0	7.3	10.1	20.6	24.3	18.6	9.7	2.8						247	247	247	247	
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Ref. Num.	510838		10848		43.9		11.826		247		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F			
Dry Bulb	1502631		19227		77.8		4.923		247						91.5		78.3		39.2			
Wet Bulb	996310		15624		63.3		5.707		247						32.8		.8					
Dew Point	724912		13178		53.4		9.422		247				2.3		2.6							
Mean No. of Hours with Temperature																					Total	
																					93	
																					93	
																					93	



GENERAL CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

214 WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0600-0800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31					Dry Bulb	Wet Bulb	Dew P
4/ 93												.3									2	2		
/ 91											.4	.1									5	5		
/ 89									.1	.4	.9	1.4									22	22		
3/ 87								.1	1.0	2.4	2.4	1.0	.3								57	57		
6/ 85							.5	1.4	2.9	2.8	2.0	.6	.6	.4							89	89		
4/ 83						.4	1.5	3.3	3.1	2.6	1.9	.9	.5		.1						114	114		
/ 81				.1	.3	.5	2.6	2.9	3.1	2.9	1.1	.8	.4								117	117		
/ 79				.1	.9	1.3	2.8	2.5	3.4	1.5	1.5	.8	.8								123	123		
7 / 77				.3	1.0	1.3	1.3	2.0	2.1	1.8	1.5	.4		.1							93	93		
4/ 75				.3	.8	.8	.8	1.5	2.3	1.3	.6	.4									68	68		
4/ 73		.1		.1	.3	.1	.6	1.0	.9	1.0	.8										39	39	14	
/ 71			.3	.1	.1	.1	.1	.8	.9	.8	.9										31	31	76	
/ 69				.3	.3		.4	1.1	.1	.4											20	20	118	
/ 67				.3	.1	.3	.3	.1	.4	.3											13	13	148	
6/ 65				.1			.1		.1												3	3	102	
4/ 63						.1															1	1	88	
/ 61						.1															1	1	77	
/ 59																							58	
5 / 57																							42	
4/ 55																							33	
2/ 53																							22	
2/ 51																							12	
5 / 49																							4	
4 / 47																							2	
4 / 45																								
4/ 43																								
2/ 41																								
4 / 39																								
3 / 37																								
/ 35																								
3 / 33																								
2/ 31																								
/ 29																								
/ 27																								
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUN

YEARS

PAGE 2 26  
MOL

[illegible]



## PSYCHROMETRIC SUMMARY

2 14 WILLIAMS AFB AZ

69-70, 73-80

AUG

**MONTH**

PAGE 1

0900-1100

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
1 / 105																	.2	2	2				
1 / 103																	.2	2	2				
2 / 101															.5	.2		7	7				
3 / 99														.4	.6	.3	.5	18	18				
3 / 97											.1	.4	1.7	1.1	1.2	.2	.44	44	44				
5 / 95										.1	.1	.5	3.1	2.7	1.1	1.0	.5	85	85				
7 / 93										.2	1.4	3.6	3.9	3.0	2.0	.9	.5	144	144				
7 / 91										1.6	4.2	5.2	2.6	2.9	1.5	1.0	1.0	185	185				
7 / 89									.9	3.0	5.4	3.2	1.3	1.8	.9	.5	.2	160	160				
6 / 87								.5	2.4	2.2	2.4	2.0	1.5	1.4	.8	.3		125	125				
6 / 85						.1	.4	.9	2.0	1.3	1.1	1.1	.9	.6	.1	.1		80	80				
4 / 83					.2	.2	1.0	.4	.1	1.0			.8			.1		35	35				
7 / 81				.1	.9	.2	.4	.2							.1			18	18				
7 / 79				.2	.4	.2		.4	.1	.3			.1					17	17				
7 / 77				.1	.2		.2											5	5	1			
7 / 75				.1														1	1	15			
4 / 73							.1											1	1	82			
7 / 71																				227	2		
7 / 69																				216	6		
7 / 67																				127	21		
6 / 65																				112	54		
4 / 63																				69	90		
7 / 61																				43	100		
7 / 59																				29	134		
7 / 57																				5	109		
5 / 55																				2	76		
4 / 53																				1	70		
2 / 51																					53		
7 / 49																					59		
7 / 47																					30		
7 / 45																					33		
4 / 43																					24		
2 / 41																					12		
4 / 39																					13		
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		°n		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																							
Wet Bulb																							
Dew Point																							



## PSYCHROMETRIC SUMMARY

AUG

MONTH

0900-1100

HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

2014

WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

1200-1400

**HOURS (L. S. T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
1/107																	1.0	9	9						
1/105																.1	2.5	24	24						
1/103																.1	1.2	2.6	36	36					
2/101														.4	2.0	3.4	3.7	89	89						
5/99													1.4	2.7	4.5	3.0	5.7	161	161						
5/97											.6	4.1	5.7	3.7	3.0	4.8	204	204							
5/95									.1	.8	2.5	3.3	4.0	2.0	2.5	2.7	166	166							
4/93									.2	1.8	2.4	2.6	1.2	1.9	.8	1.2	112	112							
1/91									.3	1.5	1.3	1.2	.6	.4	.2	.4	56	56							
1/89								.4	1.1	1.1	.8	.1	.3	.1		.1	37	37							
8/87								.2	.4	.8	.4	.8					24	24							
6/85								.2	.1	.4	.1						8	8							
1/79						.1	.1										2	2							
7/77						.1											1	1							
1/75																				51					
4/73																				186					
1/71					.1												1	1		238					
1/69																				159					
1/67																				122					
6/65																				92					
4/63																				54					
2/61																				20					
1/59																				3					
1/57																				3					
5/55																									
4/53																									
2/51																									
5/49																									
5/47																									
6/45																									
4/43																									
2/41																									
4/39																									
3/37																									
Element (X)	Z <sub>g</sub>		Z <sub>h</sub>		Z		C <sub>h</sub>		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total		
Dry Bulb																									
Wet Bulb																									
Dew Point																									



2

上二

**MONTH**

**YEARS**

**HOURS (L, S, T.)**

**USAFETAC**  
FORM  
AF 44  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/AAC

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
11 / 109																		1.0	9	9	
11 / 107																		3.0	26	26	
11 / 105																		5.2	45	45	
11 / 103															.9	4.0	7.9	110	110		
27 / 99													.2	2.2	3.4	5.2	9.2	174	174		
8 / 99												.9	3.3	7.7	3.5	10.1	219	219			
8 / 97											.5	2.7	2.9	2.7	1.7	4.8	131	131			
5 / 95										.2	.8	2.3	1.3	.8	.7	1.3	64	64			
4 / 93										.5	1.2	.6	.6	.2	.6	.3	34	34			
1 / 91										.1	.8	.3	.1	.3	.1	.3	19	19			
1 / 89										.2	.6	.3	.2		.1		13	13			
8 / 87										.2	.3	.3					8	8			
6 / 85									.1	.1	.1						2	2			
4 / 83								.1									1	1			
1 / 79						.2											2	2			
7 / 77						.1											1	1		3	
5 / 75																				58	
4 / 73																				178	
2 / 71							.1										1	1		209	
1 / 69						.1											1	1		145	
1 / 67																				135	
6 / 65																				74	
4 / 63																				43	
1 / 61																				10	
1 / 59																				2	
1 / 57																				3	
5 / 55																					
4 / 53																					
2 / 51																					
5 / 49																					
1 / 47																					
4 / 45																					
4 / 43																					
2 / 41																					
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					



2

## 1

AUG  
MONTH

1500-1700  
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OLA) REVERSE AIRCRAFT SECTIONS OF THIS FORM ARE OBSOLETE JAN 64



2

2

**AUG**

**MONTH**

1800-2000

HOURS (L, S, T.)

USAFETAC FORM 0-26-5 (OLA) REVISED SEPTEMBER 1968 OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

<u>2104</u>	<u>WILLIAMS AFB AZ</u>
STATION	STATION NAME

69-70, 73-80

YEARS

AUG  
MONTH

PAGE 2

1800-2000  
HOURS (L. S. T.)

**JSAFETAC**  
FORM  
AF 44  
**0-26-5 (OL A)**  
REPLACE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

AUG

**MONTH**

2100-2300

**HOURS (L. S. T.)**

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
10/ 99															.3		.3	2	2					
8/ 97														.5	.5	1.6	.3	13	13					
6/ 95												.5	2.4	4.0	.5	.5		30	30					
4/ 93												2.1	4.0	2.6	3.4	1.9	.3	54	54					
2/ 91										1.9	4.2	3.7	3.4	5.0	2.9	1.3	.5	87	87					
0/ 89									.3	1.6	1.6	3.2	3.4	3.4	1.1	.8	.5	60	60					
8/ 87									.5	1.1	1.1	1.6	3.7	4.0	.8	1.3		53	53					
6/ 85								.8	2.1		1.3	2.1	2.4	.5	.8	.3		39	39					
4/ 83									.3		.3	.5	1.3	.3	.3			11	11					
2/ 81						.8						.3	.3	.5				7	7					
0/ 79					.3	.5		.5	.8	.3		.3	.3					11	11					
7-1/ 77					.8	.8	.5					.3						9	9					
6/ 75							.3											1	1		2			
4/ 73																					14			
2/ 71																					62			
0/ 69						.3												1	1		67			
8-1/ 67																					58			
6/ 65																					63			
4/ 63																					56			
2/ 61																					26			
0/ 59																					16			
8-1/ 57																					11			
5-1/ 55																					3			
4/ 53																								
2/ 51																								
0/ 49																								
8-1/ 47																								
6-1/ 45																								
4/ 43																								
2/ 41																								
0/ 39																								
3-1/ 37																								
1-1/ 35																								
3-4/ 33																								
Element (X)	Σ x²		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

**USAFETAC** FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

**MONTH**

2100-2300

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2104

WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL													
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
11 / 109																		.2	11	11															
1 / 107																		.8	40	40															
1 / 105																		.0	1.7	85	85														
1 / 103																.2	1.1	2.6	186	186															
2 / 101													.0	.6	1.3	2.1	3.1	341	341																
2 / 99												.5	1.4	3.2	1.9	3.9	527	527																	
2 / 97												.3	1.6	2.5	2.1	1.7	2.6	526	526																
6 / 95										.0	.2	1.0	2.2	2.3	1.2	1.3	1.4	466	466																
4 / 93										.1	.8	1.8	2.0	1.4	1.4	.9	.6	432	432																
1 / 91										.6	1.8	1.7	1.2	1.4	.8	.4	.5	403	403																
7 / 89										.3	1.1	1.7	1.4	.7	.7	.3	.2	.1	322	322															
8 / 87									.2	.8	1.2	1.1	.9	.6	.6	.2	.2		283	283															
6 / 85						.0	.2	.5	1.2	.8	.8	.5	.5	.2	.1	.0		240	240																
4 / 83						.1	.4	.9	.8	.6	.6	.2	.3	.0	.0	.0		193	193																
1 / 81				.0	.1	.2	.8	.7	.9	.6	.3	.1	.1	.0	.0			192	192																
1 / 79				.0	.3	.5	.7	.7	.8	.3	.4	.1	.1					193	193																
7 / 77				.0	.3	.5	.3	.6	.5	.4	.3	.1		.0				140	140		6														
6 / 75				.1	.2	.2	.2	.4	.5	.4	.2	.1						110	110		145														
4 / 73			.0	.1	.1	.0	.2	.3	.2	.2	.2							58	58		560														
2 / 71				.1	.1	.0	.0	.2	.2	.2	.2	.0						50	50		999														
1 / 69					.0	.1	.0	.1	.2	.1	.1	.0						36	36		880														
6 / 67					.1	.0	.0	.0	.1	.1	.1							20	20		737														
6 / 65					.0	.0		.1		.0								6	6		583														
4 / 63							.0											2	2		395														
2 / 61						.0												1	1		216														
1 / 59																					143														
4 / 57																					84														
5 / 55																					51														
4 / 53																					34														
2 / 51																					19														
5 / 49																					9														
4 / 47																					2														
4 / 45																																			
4 / 43																																			
Element (X)	Σ x'					Σ x					Σ					Σ <sub>n</sub>					No. Obs.					Mean No. of Hours with Temperature									
Rel. Hum.																										≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 104 WILLIAMS AFB AZ

69-70, 73-80

AUG

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

ALL

ALL  
HOURS (L - S - T)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2114 WILLIAMS AFB AZ

69-70, 73-80

SEP  
MONTH

PAGE 1 0300-0  
HOURS (L.S.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew			
6/ 85										.4		.4						2	2					
4/ 83										.4		.4						3	3					
/ 81								1.8	1.3	2.2		.4						13	13					
/ 79							1.8	3.6	.4	1.8	1.8							21	21					
7 / 77					.4		1.3	.9	2.7	1.3	1.3							18	18					
/ 75					.9	.9	.4	3.1	2.2	2.7	.4							24	24					
4/ 73					.9	.9	.4	2.7	2.2	1.8	2.7							26	26					
/ 71				.9		.9	2.2	2.2	1.3	2.2	.4							23	23					
/ 69			.9		.4	.4	1.8	1.8	2.7	3.6	.4							27	27	3				
/ 67		.4	1.3		.9	.9	2.2	1.3	2.7	.9	.4							25	25	12				
6/ 65				1.8	.4	1.3	1.8	1.8	.9	2.2	.4							24	24	22				
4/ 63				.4		.4			1.8	.4								7	7	20				
/ 61					.4	.4	.4	.9	1.3									8	8	24				
/ 59								.9	.4									3	3	32				
/ 57								.4										1	1	27				
5 / 55																				25				
4/ 53																				22				
/ 51																				13				
/ 49																				7				
/ 47																				12				
/ 45																				4				
4/ 43																				2				
2/ 41																								
/ 39																								
/ 37																								
/ 35																								
3 / 33																								
/ 31																								
/ 29																								
/ 27																								
/ 25																								
/ 23																								
2/ 21																								
/ 19																								
Element (X)	Σ X²			Σ X			Σ			Σ			No. Obs.			Mean No. of Hours with Temperature								
Rel. Hum.																± 0 F ± 32 F ± 67 F ± 73 F ± 80 F ± 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



AD-A110 246

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
WILLIAMS AFB, ARIZONA REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(U)  
OCT 81

UNCLASSIFIED

USAFETAC/DS-81/096

SBI-AD-E850 129

NL

5 - 5

5 - 5



END

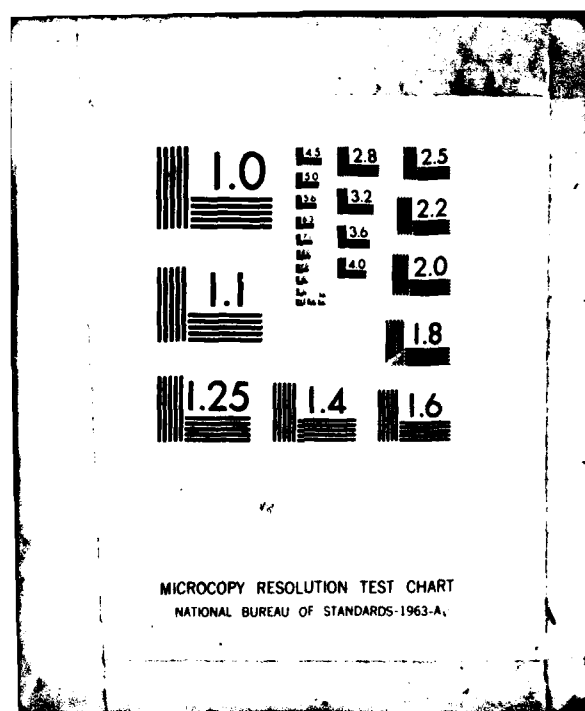
DATE

FORM

3-82

OTIC







## PSYCHROMETRIC SUMMARY

2' 104

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 2

0300-0500

HOURS (L. S. T.)

[illegible]



2

1

**MONTH**

0600-0800

**HOURS (L. S. T.)**

USAFETAC FORM 0-26-S (OL A) JUL 64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

SEP

PAGE 2      0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
25 / 23																					10	
24 / 23																					3	
/ 19																					1	
TOTAL		.1	2.3	3.1	4.8	5.3	9.4	17.7	21.3	18.0	12.0	3.5	1.6	.5	.1	.1			734		734	
																		734		734		



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2-104 WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
2/ 101																	.1	1	1			
0/ 99																	.5	.7	11	11		
3/ 97															.3	.5	.2	.2	11	11		
6/ 95												.5	.3	.6	1.5	.5	.3	32	32			
4/ 93											.2	.2	1.1	1.3	.9	.6	.2	40	40			
1/ 91											1.0	1.3	3.0	1.7	1.0	.3	.8	80	80			
1/ 89									.1	1.3	2.2	2.9	2.3	2.2	1.1	.2	.5	111	111			
3/ 87								.2	.5	1.7	1.3	3.0	1.9	2.6	.7	.8	.1	112	112			
6/ 85								.2	.7	1.8	3.2	3.7	2.4	1.3	.6	.6		126	126			
4/ 83							.1	.2	1.0	1.8	2.1	1.8	1.5	1.1	.2	.1		88	88			
1/ 81							.2	.8	1.1	1.9	2.4	1.6	.8	.9	.3			89	89			
1/ 79						.2	.6	.9	1.1	.9	1.3	.7	.3	.3				56	56			
7/ 77					.1	.7	.6	.5	.8	.8	.9	.5	.6	.5				51	51			
6/ 75					.2	.3	.2	.3	.2	.3		.5	.2					21	21			
4/ 73			.1	.7	.3	.3	.1	.1	.1	.5	.1	.1	.1					23	23	16		
2/ 71			.2	.6	.1	.1	.1	.1	.1	.1		.1						14	14	46		
1/ 69			.1	.2	.3	.2												8	8	86		
6/ 67																				161	5	
6/ 65																				163	20	
4/ 63																				125	37	
2/ 61																				122	41	
1/ 59																				63	57	
3/ 57																				48	68	
5/ 55																				22	67	
4/ 53																				17	94	
2/ 51																				4	88	
5/ 49																				1	80	
4/ 47																					49	
6/ 45																					63	
4/ 43																					53	
2/ 41																					35	
4/ 39																					23	
3/ 37																					18	
6/ 35																					15	
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						



## PSYCHROMETRIC SUMMARY

SEP  
MONTH

0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
34/ 33																					14	
32/ 31																					15	
30/ 29																					15	
28/ 27																					7	
26/ 25																					7	
24/ 23																					1	
22/ 21																					1	
20/ 19																					1	
TOTAL			.5	1.5	1.1	1.9	1.9	3.4	5.8	11.2	14.6	16.7	14.6	12.8	7.0	3.8	3.0	874	874	874	874	

USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

1

SEP

MONTN

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point	
105																	.1	1	1			
103																	1.9	17	17			
101																.5	1.3	1.9	32	32		
99														.3	1.3	1.4	2.6	49	49			
97													.5	1.4	2.5	2.2	2.7	81	81			
95												.7	2.2	2.6	2.6	2.2	3.1	117	117			
93											.3	1.3	1.7	4.1	3.1	2.9	2.7	141	141			
91										.1	.9	2.2	1.8	3.0	2.7	2.4	1.6	129	129			
89									.1	.3	1.5	2.7	2.3	2.6	1.9	1.7	.8	123	123			
87									.2	.3	1.1	2.1	1.1	1.0	.6	.6	.1	63	63			
85									.5	.8	.5	1.6	.3	.2	.3	.7		43	43			
83							.1	.5	.3	.1	.8	.5	.1		.5	.1		26	26			
81						.1	.2	.3	.2	.3		.2	.1	.1	.1			16	16			
79						.6	.2		.1	.1	.1				.1			11	11			
77					.3	.2		.2	.1		.2							10	10			
75					.2		.3	.3		.1								9	9	2		
73			.1	.1	.1		.2											5	5	30		
71					.1	.1												2	2	104		
69					.1													1	1	136		
67																				192	4	
65																				137	12	
63																				134	29	
61																				74	39	
59																				38	47	
57																				19	73	
55																				8	83	
53																				2	94	
51																					79	
49																					68	
47																					73	
45																					53	
43																					49	
41																					37	
39																					30	
Element (X)	Σ x <sup>1</sup>		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.													≤ 6 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total			
Dry Bulb																						
Wet Bulb																						
Dew Point																						

**JSAFETAC**  
FORM  
U.S. 44  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



USAFETAC  
FORM 0-26-5 (OL A)  
JUL 64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## SEP

YEARS

MONTH

1500-1700

HOURS (L. S. T.)

**USAFETAC** FORM 0-26-5 (OL A) BEYOND PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

20104	WILLIAMS AFB AZ
STATION	STATION NAME

69-70, 73-80

**YEARS**

SEP

**MONTH**

PAGE 2

1500-1700

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

23104

WILLIAMS AFB AZ

69-70,73-80

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
105																	.2	1	1	
103																	1.4	9	9	
101																	1.2	12	12	
99														.3	.9	.6	1.1	19	19	
97													.2	.9	2.1	1.2	2.5	45	45	
95												.2	.9	1.2	1.7	2.0	1.1	46	46	
93											.2	1.5	1.1	3.8	2.1	1.4	1.8	78	78	
91											.5	1.1	2.3	2.1	2.6	2.0	1.1	76	76	
89									.2	.2	.2	1.7	2.6	3.4	2.0	1.7	.8	82	82	
87									.2	.5	2.1	1.5	1.8	2.5	1.2	.6	.3	70	70	
85									.6	.9	1.8	2.0	2.8	1.4	1.1	.6		73	73	
83									.3	1.4	.8	1.8	.8	.5	.5	.2		40	40	
81							.3	.5	.3	.5	.3	.5	1.2	.5	.6			30	30	
79						.2	.3		.5	.5	.5	.2	.8	.8	.2			24	24	
77					.3	.3	.2		.6	.5		.2	.2					14	14	
75				.5	.2	.3	.9	.6		.2		.3						19	19	
73			.2			1.1	.2	.2		.2								11	11	12
71				.2	.2	.2												3	3	41
69																				80
67																				112
65																				104
63																				111
61																				87
59																				51
57																				26
55																				19
53																				8
51																				1
49																				
47																				
45																				
43																				
41																				
39																				
Element (X)	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Mean No. of Hours with Temperature		
Rel. Hum.																		± 8 F	± 32 F	± 67 F
Dry Bulb																		± 73 F	± 80 F	± 93 F
Wet Bulb																		Total		
Dew Point																				

REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

MA 64

USAFETAC



## PSYCHROMETRIC SUMMARY

2 - 104

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 2

1800-2000

HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Pt												
6/ 95															.3	.6	.3		4	4												
4/ 93															.3	1.3	.3		6	6												
/ 91											1.0	.6	1.6	1.0		.3		14	14													
/ 89										.6	1.0	1.9	2.3		.3	.3		20	20													
8/ 87											1.3	.6	3.2	2.3	.6	.3		26	26													
6/ 85									.6		1.0	2.6	4.2	2.6	.6			36	36													
4/ 83								.3	.3	1.0	2.6	1.9	2.3	2.6	1.6	1.0	.3	42	42													
/ 81							.3	.6	1.6	1.9	2.9	2.3	1.3	.3	.3			36	36													
/ 79						1.0	1.0			1.6	3.2	1.9	1.3	1.6				36	36													
7 / 77					.3	.3		1.3		.6	3.2	1.9	.3	1.3	.3			29	29													
6/ 75			.3	.6	.3	.3	1.0	1.6	.6	.3	.6	1.0	.6					23	23													
4/ 73			1.6	.3	1.6	.3	.6	.3	.6	.6		.6						21	21													
/ 71					1.0	1.0		.3		.3	.6							10	10	9												
/ 69					.3					.6								3	3	25												
6 / 67			.3	.3	.3													3	3	36												
6/ 65																				44												
4/ 63																				49												
2/ 61																				48												
/ 59																				30												
/ 57																				32												
5 / 55																				10												
4/ 53																				10												
2/ 51																				10												
5 / 49																				6												
4 / 47																																
4 1/ 45																																
4/ 43																																
2/ 41																																
4 / 39																																
3 3/ 37																																
3 1/ 35																																
3 4/ 33																																
2/ 31																																
3 / 29																																
Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.		Mean No. of Hours with Temperature																									
Rel. Hum.							$\leq 0$ F	$\leq 32$ F	$\geq 67$ F	$\geq 73$ F	$\geq 80$ F	$\geq 93$ F	Total																			
Dry Bulb																																
Wet Bulb																																
Dew Point																																



## PSYCHROMETRIC SUMMARY

2 104

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

YEARS

**MONTN**

PAGE 2

2100-2300

HOURS (L. S. T.)

[illegible]



2

YEARS \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 ALL \_\_\_\_\_  
 HOURS (L. S. T.) \_\_\_\_\_

PAGE 1

69-70, 73-80

**STATION**

STATION NAME

YEARS

SEP

PAGE 1

**A i t**

ALL  
HOURS (L. S. T.)

**USAFETAC**  
FORM  
0-26-5 (OL A)  
REV. 44  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2. 124

WILLIAMS AFB AZ

69-70, 73-80

SEP

STATION

STATION NAME

YEARS

**MONTH**

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2104

WILLIAMS AFB AZ

69-70,73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point	
7 / 77					.4			.4	.4	.4	.4							5	5			
6 / 75							.4											1	1			
4 / 73								1.3	.9	1.3								8	8			
7 / 71								.4	.4		.4							3	3			
7 / 69		.4			.4	.4	.4		1.3	1.7	.4							12	12	1		
7 / 67				.4	.9	.4	1.7	.4	1.7	2.1								18	18	1	1	
6 / 65			.9	.4	.4	.4	1.7	.9	2.6	2.6								23	23		1	
4 / 63						.9	3.4	.9	1.3	1.3								18	18	5		
7 / 61			.4	.4	1.7	1.3	2.6	.4	2.6	.4								23	23	3	1	
6 / 59					.9	.9	2.6	4.7	.9		.4							24	24	9	1	
6 / 57			.4		.9	2.1	.9	4.3	.4									21	21	9	2	
5 / 55		.4	1.3	.9		.9	1.3	3.0	.9									20	20	9	4	
4 / 53		.4	.4	.4	.4	.4	3.0	2.6	.4									19	19	23	7	
2 / 51		.4	.9	.4		1.7	.4	.4										10	10	23	3	
5 / 49					.9	1.3		.4										6	6	29	7	
4 / 47		.4			.4	1.7	1.7	.4										11	11	24	8	
4 / 45					.4		2.1											6	6	24	11	
4 / 43		.4			.4	.9												4	4	18	17	
2 / 41							.4											1	1	22	11	
4 / 39						.9												2	2	14	18	
3 / 37																				8	11	
3 / 35																				5	12	
3 / 33																				5	13	
2 / 31																				1	13	
7 / 29																				2	22	
2 / 27																					17	
6 / 25																					18	
4 / 23																					6	
2 / 21																					10	
7 / 19																					2	
13 / 17																					5	
16 / 15																					4	
14 / 13																					6	
11 / 11																					1	
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								Total	
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F			Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						



## PSYCHROMETRIC SUMMARY

OCT

**MONTH**

0300-0500

**HOURS (L. S. T.)**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
YEARS

OCT  
MONTH

PAGE 1

0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4/ 83										.1								1	1					
- / 81										.1		.1						2	2					
/ 79									.3	.5	.4	.4	.3					14	14					
7 / 77										.4	.4	.1						7	7					
/ 75				.1	.1		.5	.7	.4	.5	.4	.3						23	23					
4/ 73			.3				.1	.8	1.0	.5	1.0	.1						30	30					
/ 71			.1		.1	.3		.5	.7	1.4	1.0	.1						33	33	1				
/ 69		.4		.1		.4	.4	.4	1.6	1.3	.8							41	41	2	2			
/ 67			.1	.1	.5	.5	1.4	1.4	1.4	1.2	.3							54	54	5	5			
6/ 65			.7	.4	.5	.4	1.7	1.3	2.1	1.4	.1							66	66	4				
4/ 63		.3	.3	.5	.4	.7	1.2	.9	1.7	1.3	.1							56	56	12	1			
- / 61		.1	.3	.3	.1	1.4	1.8	1.7	1.6	.3								58	58	20	2			
/ 59			.3	.3	1.3	1.7	2.1	1.7	2.0	.1								72	72	35	7			
/ 57			.4	.3	.5	1.2	1.4	3.6	1.0	.3								67	67	37	6			
5 / 55			.7	.4	.7	1.7	2.5	2.3	.3									65	65	51	18			
4/ 53		.4	1.0	.7	.4	1.0	1.6	1.2	.8									54	54	62	20			
/ 51		.3	1.0		.1	.7	1.2	.8	.3									33	33	90	13			
/ 49			.5	.1	.5	1.3	1.0	.1										28	28	77	23			
- / 47		.3			1.2	.9	.5	.5										26	26	78	27			
/ 45		.1			.4	.7	.4											12	12	75	53			
4/ 43		.3		.3	.4	.3	.8											15	15	74	45			
2/ 41					.1	.4	.3											6	6	41	43			
/ 39						.4												3	3	37	55			
/ 37						.3												2	2	31	38			
/ 35				.1														1	1	14	38			
34/ 33																				9	51			
2/ 31																				7	51			
/ 29																				6	54			
/ 27																				1	60			
- / 25																					38			
4/ 23																					35			
2/ 21																					20			
/ 19																					19			
/ 17																					10			
Element (X)	Σ X <sup>2</sup>		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X		Σ X			
Rel. Hum.																								
Dry Bulb																								
Wet Bulb																								
Dew Point																								



2.

## 2

OCT

**MONTH**

0600-0800

HOURS (L. S. T.)

FORM 0-26-5 (OL A)

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

27174

WILLIAMS AFB AZ

69-70,73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
6/ 95																	.2	2	2			
4/ 93															.2	.1	.1	5	5			
2/ 91													.1		.4	.2	.2	9	9			
0/ 89											.1	.2	.7	.7	1.1	.4	.2	31	31			
8/ 87										.1	.3	.4	1.1	1.0	1.1	.3		40	40			
6/ 85									.2	.1	.4	.8	1.7	1.8	.8	.2		54	54			
4/ 83									.3	.2	.4	.6	1.4	1.3	.3			42	42			
2/ 81							.1	.1	.6	.7	.9	1.3	2.0	.4	.3			58	58			
0/ 79					.1	.1		.4	.3	.2	1.2	1.9	1.3	.7	.3			60	60			
7- / 77				.1	.2	.1	.3	.3	.2	.9	1.8	1.9	1.4	.6				71	71			
6/ 75						.1	.3	.3	1.0	1.9	1.4	2.2	.9	.3				77	77			
4/ 73			.2	.2	.2	.7	.2	.8	1.3	1.4	1.6	.9	.9	.1				77	77			
2/ 71				.1	.1	.2	.7	.4	.9	1.2	1.7	1.7						63	63	4		
0/ 69				.2	.2	.2	.2	1.7	.9	.9	2.4	.6	.1					67	67	11	1	
6- / 67			.3		.4	.3	.1	.6	1.0	1.1	.7	.6	.1					47	47	19	6	
6/ 65			.2	.2	.2	.7	.6	.6	1.7	1.9	.7	.1						61	61	40	3	
4/ 63					.4	.7	.3	.4	2.0	.8	.4	.1						47	47	58	1	
2/ 61				.1	.3	.4		.8	.8	.8	.1							30	30	87	8	
0/ 59				.6	.7		.4	.7	.6	.2								28	28	104	21	
5- / 57		.1		.1	.2		.8	.3	.4	.2								20	20	119	15	
56/ 55			.1	.3		.1	.1		.1									7	7	107	17	
4/ 53								.2	.1									3	3	81	29	
2/ 51			.4															4	4	72	33	
51/ 49																				83	33	
42/ 47																				55	48	
46/ 45																				34	73	
44/ 43																				19	78	
42/ 41																				5	58	
41/ 39																				4	64	
36/ 37																				1	57	
26/ 35																					58	
34/ 33																					59	
22/ 31																					61	
31/ 29																					36	
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						

FORM 0-26-5 (OLA) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



2

## PSYCHROMETRIC SUMMARY

**QCT**

**MONTH**

0900-1100

**HOURS (L, S, T)**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2174 WILLIAMS AFB AZ

69-70,73-80

OCT

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
99																	.3	3	3			
97															.1	.2	1.3	15	15			
95														.3	.6	.8	2.2	35	35			
93													.4	.8	1.4	1.6	2.8	63	63			
91												.3	.2	1.0	1.3	2.3	1.7	62	62			
89											.4	.9	.3	1.0	3.5	.8	.9	71	71			
87										.4	.4	.4	.6	1.9	1.6	1.4	.3	64	64			
85										.6		.6	1.3	2.1	.4	1.4	.2	60	60			
83									.2	.3	.8	1.0	2.0	1.8	.7	.7		67	67			
81						.1			.1	.2	1.0	1.8	1.2	1.3	1.4	.3		68	68			
79						.2	.1		.1	.9	2.4	1.7	1.6	1.1	1.0			82	82			
77					.2	.1	.1	.3	.2	.4	1.8	.8	1.3	1.1				58	58			
75					.2		.3	.6	.7	1.3	.2	.8	1.1	.8				54	54			
73					.3	.2		.4	.3	.7	.2	1.6	1.3	.2				48	48			
71				.1	.1		.1	.8	.8	.4	.4	1.1	.4					39	39	3		
69				.1	.2		.7	.3	.1	.9	1.1	1.0	.2					42	42	29		
67				.1	.2	.4	.2		.3	1.1	.2	.8						31	31	46	1	
65			.1	.1	.1	.1	.1	.1	.8	.1	.2	.1						17	17	48	5	
63					.1	.2	.1	.2	.3		.1							10	10	99	4	
61					.1	.2	.2	.3										8	8	143	4	
59					.1	.1	.1											3	3	141	17	
57																				111	12	
55				.1	.1													2	2	73	28	
53			.1															1	1	61	27	
51																				66	27	
49																				49	42	
47																					43	
45																				25	72	
43																					77	
41																					77	
39																					64	
37																					53	
35																					71	
33																					48	
Element (X)	Σ X'		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.																					Total	
Dry Bulb																						
Wet Bulb																						
Dew Point																						



## PSYCHROMETRIC SUMMARY

OCT

**MONTH**

1200-1400

HOURS (L. S. T.)

[illegible]



2

YEARS \_\_\_\_\_ OCT \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 PAGE 1 1500-1700  
 HOURS (L. S. T.) \_\_\_\_\_

**69-70, 73-80**

STATION

STATION NAME

**YEARS**

OCT

**MONTH**

PAGE 1

**1500-1700**

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
103																		.1	1	1				
2/101																		.5	4	4				
0/ 99																		.4	.6	8				
8/ 97																		.7	1.6	19	19			
6/ 95														.5	.5	1.5	4.6	58	58					
4/ 93													.5	.2	.7	2.2	4.9	70	70					
2/ 91											.1	.4	.4	.9	1.6	1.8	2.0	58	58					
0/ 89												.6	.1	1.2	2.9	1.3	2.2	69	69					
8/ 87											.1		.5	1.3	1.1	1.6	.5	42	42					
6/ 85										.6		.7	1.0	2.3	1.6	1.8		66	66					
4/ 83										.2	.7	.7	1.3	1.8	2.7	.6		67	67					
2/ 81							.4	.2	.1	.6	.7	2.4	1.3	1.7	1.3	.1		74	74					
0/ 79									.1		2.0	1.1	.7	.7	.6			43	43					
78/ 77								.4	.1	.5	.9	.6	1.0	2.3	.2			49	49					
6/ 75					.4			.2	.1	.9	1.1	.2	.1	1.1	.7			40	40					
4/ 73				.2		.2		.2	.2	.5	1.0	.5	1.6	.9				44	44					
2/ 71									1.0	.5	.2	1.1	.2	.6				30	30	1				
0/ 69					.1	.5	.4	.2		.4	.7	.9	.2					29	29	21				
58/ 67				.2	.1		.2		.5	.6	.1	.5						19	19	39				
6/ 65			.1	.1		.1	.1	.1	.9	.2								14	14	45				
4/ 63			.1		.1		.5	.1	.1									8	8	105				
2/ 61					.1		.2	.1										4	4	130				
0/ 59																				128				
58/ 57					.2	.1												3	3	105				
56/ 55				.1														1	1	79				
54/ 53																				45				
52/ 51																				63				
50/ 49																				43				
48/ 47																				10				
46/ 45																				6				
44/ 43																								
42/ 41																								
40/ 39																								
38/ 37																								
Element (X)	Σx²		Σx		x̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

INFORMED BY WHOI MAIL AND TELETYPE STATIONS DISPATCH

**D-26-S (OL A)**

1000

**USAFETAC**



2

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OCT

YEARS

**MONTH**

1500-1700

HOURS (L, S, T.)

**USAFETAC**  
FORM  
JAN 64  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 114  
STATIO

WILLIAMS AFB AZ

69-70, 73-80

OCT  
MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point		
2/ 99																	.3	2	2				
3/ 97																	.1	1	1				
5/ 95																.1	.4	.4	7	7			
4/ 93																.1	.3	.6	7	7			
7/ 91												.1	.6	.6	1.2	.4	.6	24	24				
7/ 89												.7	.6	.6	.7	.6	.4	25	25				
6/ 87											.6	.1	.6	2.2	1.9	.3		39	39				
6/ 85										.4	.3		.9	2.4	.9	.4		36	36				
4/ 83										.3		.3	1.5	1.9	1.0	.1		35	35				
7/ 81									.1	.1	.4	1.3	2.1	1.0	.9			41	41				
7/ 79							.1	.3		.7	1.5	2.5	2.9	1.8	.3			69	69				
7/ 77							.3	.1	.1	.4	.3	2.5	.9	1.2	.4			43	43				
5/ 75				.3	.1			.1	.1	.9	1.3	1.3	2.8	1.3	.4			60	60				
4/ 73								.4	.3	1.5	2.1	1.8	1.8	1.6				64	64				
7/ 71		.1	.1				.3		.6	1.5	.7	1.6	1.0	.6				45	45	2			
7/ 69					.7		.1	.1	.4	1.0	.6	2.4	1.2	.3				47	47	8			
6/ 67					.3		.1	.4	.6	1.0	1.3	1.3	.6					39	39	22			
6/ 65				.3			.4	.3	.3	.1	.7	.9						21	21	22			
4/ 63			.1	.1	.3		.3	.1		.7	.4	.7						20	20	30			
7/ 61				.3	.1		.1	.1	.7	.9	.4	.1						20	20	64			
7/ 59				.3	.4		.3	.1	.7		.7							18	18	80			
7/ 57				.1	.1			.1	.4	.1	.1							8	8	110			
5/ 55				.6				.1		.4								8	8	86			
4/ 53									.1									1	1	75			
2/ 51																				52			
5/ 49																				56			
5/ 47																				30			
4/ 45																				24			
4/ 43																				11			
2/ 41																				5			
4/ 39																				3			
3/ 37																							
6/ 35																							
3/ 33																							
Element (X)	Σ X'		Σ X		Σ		σ <sub>A</sub>		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																							
Wet Bulb																							
Dew Point																							



2

1

OCT

**MONTH**

1800-2000

HOURS (L. S. T.)

**USAFETAC**  
FORM  
JUL 84  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

OCT

**MONTH**

2100-2300

HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

2 104  
STATII

WILLIAMS AFB AZ

69-70, 73-80

OCT

**MONTH**

PAGE 1

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point				
1 1/173																		.0	1	1				
2 2/101																		.1	4	4				
3 3/ 99																		.1	13	13				
4 4/ 97																.0	.2	.5	35	35				
5 5/ 95														.2	.2	.5	1.4	102	102					
6 6/ 93													.2	.2	.5	.8	1.5	145	145					
7 7/ 91											.0	.2	.2	.4	.8	.9	.8	153	153					
8 8/ 89											.1	.4	.3	.6	1.5	.6	.7	196	196					
9 9/ 87										.1	.3	.2	.5	1.1	1.0	.7	.2	186	186					
10 10/ 85									.0	.3	.2	.4	.9	1.5	.6	.7	.0	219	219					
11 11/ 83										.1	.2	.4	.5	1.2	1.2	.8	.3	218	218					
12 12/ 81						.0	.1	.1	.1	.2	.4	.6	1.3	1.2	.8	.7	.1	256	256					
13 13/ 79				.0	.0	.1	.1	.1	.1	.2	.4	1.4	1.4	1.2	.7	.4		277	277					
14 14 1/ 77				.0	.1	.1	.1	.1	.3	.2	.5	1.3	.8	1.0	.8	.0		243	243					
15 15 6/ 75				.1	.2	.0	.3	.4	.7	1.1	.7	1.1	.8	.4				269	269					
16 16 4/ 73			.1	.1	.1	.2	.1	.6	.9	1.0	1.1	1.0	1.0	.2				297	297					
17 17 2/ 71	.0	.0	.1	.1	.2	.2	.2	.7	.9	.8	1.3	.8	.3					242	242	11				
18 18 1/ 69	.1	.1	.1	.3	.2	.4	.6	.8	.9	1.4	.6	.2						260	260	74				
19 19 1/ 67		.1	.1	.4	.3	.5	.6	1.0	1.2	.6	.5	.0						248	248	135				
20 20 6/ 65		.2	.2	.2	.3	.6	.5	1.3	1.2	.4	.1							230	230	165				
21 21 4/ 63	.0	.1	.1	.3	.4	.6	.4	1.0	.6	.3	.0							175	175	315				
22 22 2/ 61	.0	.1	.2	.2	.5	.6	.7	.9	.3	.0								163	163	459				
23 23 1/ 59		.0	.3	.5	.4	.7	.8	.6	.2	.0								167	167	514				
24 24 1/ 57	.0	.1	.1	.3	.3	.5	1.0	.5	.1									138	138	509				
25 25 6/ 55	.0	.2	.3	.2	.4	.6	.6	.3	.0									122	122	432				
26 26 4/ 53	.1	.2	.1	.1	.2	.4	.5	.2										83	83	390				
27 27 2/ 51	.1	.3	.0	.0	.3	.2	.2	.0										56	56	406				
28 28 0/ 49		.1	.0	.1	.3	.2	.0											35	35	370				
29 29 3/ 47	.1			.2	.2	.2	.1											37	37	256				
30 30 5/ 45	.0			.1	.1	.2												18	18	196				
31 31 4/ 43	.1		.0	.1	.1	.1												19	19	144				
32 32 2/ 41				.0	.1	.1												7	7	86				
33 33 1/ 39					.1													5	5	68				
34 34 1/ 37					.0													2	2	42				
Element (X)	Σ X <sup>2</sup>			Σ X			Σ			Σ <sub>s</sub>			No. Obs.			Mean No. of Hours with Temperature								
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																								
Wet Bulb																								
Dew Point																								



2



**MONTH**

ALL

HOURS (L. S. T.)

[illegible]

**USAFETAC FORM 0-24-5 (OL A)** REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2014 WILLIAMS AFB AZ

69-70,73-80

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
67							.5											1	1			
65							.5											1	1			
63						.5	.5											2	2			
61								.9		.5								3	3			
59					.5	.9		1.4	.5									7	7			
57			.9			.5	1.4	1.4	1.4									12	12			
55				.9	.9	.9	2.3	.9	.9									13	13	2		
53		.9	1.8	1.4	.5	1.4	1.4	1.8	.5									21	21	3	1	
51	.5			.9	.9	2.3	3.7	1.4										21	21	7	4	
49			1.8	2.3	3.2	3.2	2.8	1.4										32	32	5	1	
47		.9	.5	1.4	6.0	.9	3.7	1.8	.9									35	35	10	2	
45		.9	1.4	1.8	.9	3.7	1.4	.5										23	23	20	5	
43			.9	.5	.5	1.4	.9											9	9	24	5	
41		.5	1.4	.5	2.8	2.3	.9											18	18	27	8	
39				.5	.5	2.3												7	7	39	12	
37		.9	.5	.5	.5	1.4												8	8	19	5	
35		.5	.5	.5	.5													4	4	20	16	
33		.5																1	1	19	6	
31																				13	18	
29																				7	23	
27																				3	15	
25																					9	
23																					7	
21																					11	
19																					24	
17																					10	
15																					5	
13																					8	
11																					12	
9																					6	
7																					3	
1																					1	
-1																					1	
Element (X)	Σ x'		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x		Σ x	
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						
																			</			



[illegible]



2

1

69-70, 73-80

NOV

**MONTH**

PAGE 1

0600-0800

1960-69  
1970-79

ANSWERS TO QUESTIONS OF THIS FORM ARE OBLIGATORY

0-24-5 (01 A)

**Q**

# SAFE IAC



## PSYCHROMETRIC SUMMARY

NOV  
MONTH  
0600-0800  
HOURS (L. S. T.)

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
/ 1 - / -3																					?	
T T4L	.3	4.9	9.5	9.9	21.2	19.7	18.8	12.2	2.7	.8								730	730	730	730	



## PSYCHROMETRIC SUMMARY

2 134

WILLIAMS AFB AZ

69-70, 73-80

NOV

PAGE 1

0900-1100

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4/ 83											.1							1	1					
7 / 81														.1	.1			2	2					
7 / 79									.1			.1		.5				6	6					
7 / 77									.2		.5	.1	.4	.4				13	13					
8/ 75										.1	.6	1.2	.8	.1				24	24					
4/ 73								.2		.8	.7	1.9	.4					34	34					
7/ 71								.4	.2	1.1	1.6	1.8	.4	.1				47	47					
7 / 69							.2	.5	.9	.8	2.9	.6	.1					52	52					
7 / 67				.1	.4		.2	.8	1.3	1.6	2.8	.5						66	66					
6/ 65				.1		.2	.8	1.1	2.5	2.9	1.1	.4						77	77					
4/ 63			.1	.4		.2	.8	1.9	1.4	2.0	1.6							72	72	2				
2/ 61			.6	.2	.2	.7	1.9	1.9	2.5	1.5	.2							83	83	5				
7/ 59		.1	.5		.4	1.6	1.4	1.4	2.3	1.3								77	77	7				
7/ 57		.1	.2	.6	.8	2.1	1.3	1.2	1.9	.9	.1							79	79	27				
5 / 55		.4	.1	.7	1.5	1.1	1.1	1.3	1.4	.2								66	66	35				
4/ 53		.2	.6	1.1	.6	1.1	.6	.7	.2	.1								44	44	68				
2/ 51		.1	.7	.7	.6	.6	1.2	.9										41	41	109				
5 / 49			.7	.5	.7		.7	.7	.1									29	29	148				
7/ 47		.5	.4	.2	.4	.2	.2	.1										17	17	142				
4/ 45			.2	.4	.4	.4	.5	.1										16	16	96				
4/ 43		.1		.1		.4	.1											6	6	83				
2/ 41			.1			.1												2	2	55				
4 / 39		.1		.1														2	2	36				
3/ 37						.1												1	1	22				
6/ 35																				14				
34/ 33																			6	61				
2/ 31																			1	85				
2 / 29																				59				
24/ 27																			1	49				
25/ 25																				51				
24/ 23																				51				
2/ 21																				43				
2 / 19																				33				
2/ 17																				31				
Element (X)	Σ x²	Σ x		x̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature														
Rel. Num.										≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 86 F	≤ 93 F	Total								
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

**YEARS**

[illegible]



## PSYCHROMETRIC SUMMARY

NOV

**MONTH**

1200-1400

MOLES (1 - 3 - 7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
1/ 89																	.6	5	5					
3/ 87																	.3	3	3					
6/ 85												.1		.1			.3	5	5					
4/ 83											.2		.3	.7	1.3			22	22					
1/ 81										.1		.6	.9	2.7	.5	.3		44	44					
1/ 79									.2		.1	1.6	3.1	2.8	.5			72	72					
7/ 77											.7	2.1	3.4	1.3	.3			67	67					
6/ 75										.2	1.3	3.1	2.9	1.3				76	76					
4/ 73									.5	.5	1.4	2.1	1.5	2.3	.7			77	77					
1/ 71						.3		.5	.7	1.2	2.2	2.8	1.3					77	77					
1/ 69					.2	.1	.1	1.2	1.0	2.1	2.4	2.8	.6					91	91					
6/ 67					.5	.2	1.3	1.5	1.5	1.2	1.5							66	66					
6/ 65				.1	.2	.2	.5	1.6	.9	2.1	1.6	.5						67	67					
4/ 63			.1	.3	.2	.3	.8	.6	1.0	.3	.5	.1						38	38	6				
2/ 61			.3		.1	1.2	.5	.6	.3	.8	.6	.1						39	39	8				
1/ 59		.1	.3	.1	.5	1.3	.5	.7	.1	.2								39	39	30				
1/ 57			.1	.2	.1	.6	.5	.3	.5	.3								24	24	75				
5/ 55			.1	.6	.5	.2		.3	.1									16	16	143				
4/ 53			.1	.2	.5			.3										10	10	141				
2/ 51			.3	.1	.1		.1	.2		.1								9	9	150				
50/ 49			.5		.1	.2			.1									8	8	113				
45/ 47		.1			.1		.1	.1										4	4	88				
40/ 45																				54				
4/ 43																				20				
2/ 41																				12				
4/ 39																				10				
3-1/ 37																				6				
1-1/ 35																				2				
34/ 33																				1				
2/ 31																								
1/ 29																								
13/ 27																								
16/ 25																								
24/ 23																								
Element (X)	Σ X <sup>2</sup>			Σ X			Σ			°A			No. Obs.			Mean No. of Hours with Temperature								
Rel. Hum.																≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																								
Wet Bulb																								
Dew Point																								



## PSYCHROMETRIC SUMMARY

69-70, 73-80

NOV

MONTH

1200-1400

HOURS (L, S, T, )

[illegible]



## PSYCHROMETRIC SUMMARY

214  
STATIO

WILLIAMS AFB AZ

69-70, 73-80

NOV

**MONTH**

PAGE 1

1500-1700

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
1 / 91																	.4	3	3				
1 / 89																	1.7	8	8				
8 / 87															.1	.4	.1	5	5				
6 / 85												.3		.8	1.3	.5		22	22				
4 / 83											.1		.5	1.1	1.9	.3		31	31				
1 / 81										.3		.9	1.4	4.2	1.0	.4		64	64				
1 / 79										.1	.3	1.4	2.2	3.6	1.8			73	73				
7 / 77										.1	1.9	1.1	2.9	3.6	.6			81	81				
6 / 75									.1	.3	1.4	1.4	2.9	1.0				56	56				
4 / 73								.3	.9	1.4	2.9	2.0	1.8					73	73				
1 / 71						.4	.3	.4	.9	1.0	2.2	2.9	2.3					81	81				
1 / 69					.3	.1	.3	1.3	1.0	1.8	2.3	.5						59	59				
1 / 67					.4	.1	.5	1.7	.6	1.3	1.0	.1						44	44				
6 / 65				.1	.4	.3	.9	.8	.1	.9	1.5	.9						46	46				
4 / 63			.3	.3	.3	.1	.6	1.0	.1	.3	.4							26	26	6			
1 / 61			.3	.1	.1	.3	.6	.6	.5	.4	.1							24	24	8			
1 / 59				.1	.8	.8	1.4	.9	.4	.5	.1							39	39	43			
1 / 57				.3		.4	.8	.1	.5	.5								20	20	98			
5 / 55					.3	.5			.4									9	9	127			
4 / 53				.1	.3	.1		.4										7	7	131			
2 / 51			.3						.1	.3								5	5	123			
5 / 49		.1	.3			.4												6	6	102			
4 / 47		.1	.3															3	3	61			
4 / 45																				45			
4 / 43																				13			
2 / 41																				14			
4 / 39																				11			
3 / 37																							
3 / 35																				3			
3 / 33																							
2 / 31																							
1 / 29																							
1 / 27																							
1 / 25																							
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ				
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							



2

## 1

**MONTH**

[illegible]



## PSYCHROMETRIC SUMMARY

204

WILLIAMS AFB AZ

69-70, 73-80

NOV

**MONTH**

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
6/ 85											.2		.2			.2	.2	1	1					
4/ 83											.2		.2		.5	.2		3	3					
2/ 81													.2		.2			5	5					
0/ 79										.2		.3	.5	.2				7	7					
7 / 77									.2		.5		.8	.3	.2			12	12					
5/ 75									.3	.3	1.0	1.3	1.1	.2				26	26					
4/ 73									.2	.6	.3	2.1	.6					24	24					
2/ 71								.2	.3	1.1	.8	1.5		.2				25	25					
0/ 69					.2	.2	.2	1.5	1.6	1.5	3.4	2.1	.2					66	66					
8 / 67							.6	1.0	1.6	2.7	2.3	.5						54	54					
6/ 65				.3	.3	.2	.8	1.6	2.3	3.1	2.1	.2						67	67					
4/ 63			.2		.2	.3	1.1	1.8	2.3	2.1	.8							54	54	1				
2/ 61			.6		.2	1.1	1.1	1.9	1.3	1.6	.8	.2						55	55	3				
0/ 59				.5	.5	1.5	1.8	1.0	2.6	1.1	.2							56	56	8				
7 / 57				.5	1.0	1.9	.8	.8	1.9	.8								48	48	24				
5 / 55				.5	1.3	.8	.3	1.6	2.6	.3								46	46	40	8			
4/ 53			.3	.2	1.1	.3	.3	.8	1.3	.2								28	28	61	2			
2/ 51			.2	.8			.3	.8	.3									15	15	76	4			
0 / 49		.2	.2	.2	.3	.3	.6	.3										13	13	110	7			
8 / 47		.2	.5	.5	.2			.2	.2									10	10	99	8			
6 / 45					.3			.2										3	3	62	22			
4/ 43								.2										1	1	44	28			
2/ 41																				34	33			
0 / 39																				32	47			
3 1/ 37																				18	41			
5 / 35																				4	47			
3 1/ 33																				1	36			
2 / 31																				2	51			
0 / 29																					35			
8 / 27																					40			
6 / 25																					50			
4 / 23																					32			
2 / 21																					29			
0 / 19																					32			
Element (X)	Σ X <sup>2</sup>			Σ X		Σ		Σ <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.												≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																								
Wet Bulb																								
Dew Point																								



1.9	3.4	5.5	6.6	8.2	13.6	18.9	15.7	12.3	8.1	3.6	1.3
-----	-----	-----	-----	-----	------	------	------	------	-----	-----	-----



2

## PSYCHROMETRIC SUMMARY

NOV

**MONTH**

2100-2300

HOURS (L. S. T.)

**JSAFETAC** FORM 0-26-5 (OL A)  
REV. 11-77  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

PAGE 2      2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
T TAL		1.2	4.5	9.3	8.9	15.0	14.6	23.1	17.0	4.5	1.6	.4						247	247	247	247
Total																					

Element (X)	Z <sub>x'</sub>	Z <sub>X</sub>	X̄	s <sub>a</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						< 6 F	> 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Ref. Num.	467602	9872	40.0	17.231	247			.				90
Dry Bulb	767344	13692	55.4	5.827	247							90
Wet Bulb	486554	10880	44.0	5.449	247		1.8					90
Dew Point	244828	7250	29.4	11.409	247	.7	51.7					90

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## 1

NOV

**MONTH**

ALL

HOURS (L, S, T.)

**USAFETAC**



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

27104

WILLIAMS AFB AZ

69-70, 73-80

NOV

MONTH

ALL

HOURS (L. S. Y.)

STATION

STATION NAME

YEARS

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
24 / 23																					3	206
22 / 21																						217
20 / 19																						244
18 / 17																						149
16 / 15																						110
14 / 13																						89
12 / 11																						70
10 / 9																						31
8 / 7																						21
6 / 5																						22
4 / 3																						8
2 / 1																						9
0 / -1																						3
-2 / -3																						3
-4 / -5																						2
TOTAL	.1	1.6	4.1	4.7	8.0	9.6	9.9	11.0	10.2	8.8	9.4	8.5	6.5	4.9	1.8	.5	.4		4315		4315	
																			4315		4315	
																		</				



## PSYCHROMETRIC SUMMARY

2. 104 WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
1/ 59				.5						.5								2	2				
1/ 57			.5			.5		.5			.5							4	4				
5/ 55							.5											1	1				
4/ 53			.5															1	1	2			
3/ 51			.5		.5		.5	.5	.5									5	5	1			
2/ 49		1.1	1.6	.5	2.2	2.2	1.6	.5										18	18	2			
1/ 47		.5	1.1	.5	1.1	.5	1.1											9	9	5			
1/ 45		.5	.5	1.6	3.8	4.9	2.7											26	26	3			
4/ 43		1.1	1.6	3.3	3.8	2.2	2.7											27	27	2			
2/ 41			1.6	3.8	3.8	1.6	.5											21	21	4			
4/ 39		1.1	3.3	2.7	2.2	2.2	1.1											23	23	3			
3/ 37		1.1	1.1	2.7	2.2	.5												14	14	1			
1/ 35	.5	1.6	3.8	1.6	2.2	.5												19	19	9			
3/ 33		.5	3.3	.5	1.1													10	10	9			
2/ 31			.5															1	1	13			
1/ 29				.5	.5													2	2	15			
1/ 27																				7			
1/ 25			.5															1	1	21			
1/ 23																				7			
2/ 21																				14			
1/ 19																				13			
13/ 17																				12			
13/ 15																				7			
14/ 13																				13			
11/ 11																				4			
1/ 9																				7			
5/ 7																				2			
6/ 5																				1			
4/ 3																				3			
2/ 1																				1			
1/ -1																				1			
TOTAL	.5	7.6	23.7	16.9	23.4	15.2	10.9	1.6	.5	.5	.5							184	184	184			
																		184	184				
Element (X)	Σx'		Σx		Σ		Σ <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.	568414		9630		52.3		18.761		184		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb	337973		7809		42.4		5.986		184				2.0										93
Wet Bulb	238622		6550		35.6		5.460		184				27.8										93
Dew Point	129318		4524		24.8		9.942		184				.5 75.3										93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 104 WILLIAMS AFB AZ  
STATION STATION NAME

69-70,73-80  
YEARS

DEC  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
57 / 57				.4	.3				.1	.3								8	8		
56 / 55		.4	.4		.3				.3									12	12		
4 / 53		.6	.3			.1	1.2		.1									16	16	3	
2 / 51		.4	.3		.1	.9	.3	.6	.1	.3								21	21	13	3
57 / 49		.9	1.0	.7	1.2	1.0	.7	.4	.1									42	42	6	10
1 / 47		1.2	.4	1.2	3.0	1.2	.6	.3										54	54	9	8
1 / 45	.1	1.4	.1	1.6	2.9	1.7	1.4											65	65	16	11
4 / 43		.3	1.4	3.2	2.9	2.7	1.2											81	81	29	13
2 / 41		.6	1.9	4.0	2.2	2.7	1.3											88	88	34	14
4 / 39		.3	2.7	2.2	2.9	2.6	.3											76	76	63	5
37 / 37		1.6	3.2	2.5	1.7	.4												65	65	86	9
35 / 35	.4	1.0	3.5	3.0	2.6	.6												77	77	96	37
33 / 33		.6	3.2	1.3	1.4	.4												48	48	93	27
31 / 31		.6	1.7	.4	.3													21	21	104	40
29 / 29		.6		.9	.1													11	11	76	62
27 / 27				.4														3	3	31	68
25 / 25		.1	.4															4	4	15	69
23 / 23			.1															1	1	12	41
21 / 21																				7	46
19 / 19																					50
17 / 17																					40
15 / 15																					29
13 / 13																					33
11 / 11																					29
9 / 9																					27
8 / 7																					11
6 / 5																					2
4 / 3																					4
2 / 1																					5
1 / -1																					3
TOTAL	.6	10.5	20.8	21.8	21.9	14.4	7.2	1.3	.9	.6								693	693	693	693
Element (X)	Σx'		Σx		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								
Rel. Hum.	2291032		37714		54.4		18.560		693				≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb	1224448		28802		41.6		6.292		693					5.4					93		
Wet Bulb	882188		24388		35.2		5.880		693					32.9					93		
Dew Point	497819		17227		24.9		10.027		693				.4	75.0					93		



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2-104 WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
4/ 73											.1							1	1		
3/ 71										.1	.1							2	2		
1/ 69										.4	.1							4	4		
6/ 67										.4	.4	.2						8	8		
6/ 65					.1		.1		.5	.5	.4	.1						14	14		
4/ 63					.1	.1	.1	.4	1.3	.9	.6	.1						31	31		
2/ 61		.1		.2			.2	1.5	2.1	.8	.1							44	44		
1/ 59		.1	.1	.2		.6	1.4	2.2	2.6	.9								70	70	2	1
1/ 57			.5	.6	.5	.8	1.6	1.4	1.4	.8								65	65	1	1
5/ 55		.2	.2	.6	.7	1.8	3.8	1.9	1.3	.4								92	92	5	
4/ 53		.6	.7	.5	.9	1.6	2.4	2.6	.6									84	84	13	2
2/ 51		.2	.7	.9	2.0	1.4	2.8	1.1	.1	.1								80	80	26	11
5/ 49		.6	.6	1.4	3.3	3.1	2.2	1.2	.1									106	106	35	6
4/ 47		.2	.5	2.2	1.6	1.3	1.9	.5										70	70	87	12
4/ 45		.8	1.4	1.4	1.8	.7	.8	.4										62	62	106	16
4/ 43		.5	.6	.7	1.2	.6	.6											35	35	137	16
2/ 41		.2	.7	1.2	.7	.8	.2											33	33	135	19
4/ 39		.2	.7	1.1	.7	.2												25	25	110	36
3/ 37			.7	.4	.1	.2												12	12	75	35
2/ 35		.1	.1	.1	.1													4	4	52	57
3/ 33		.2			.2													4	4	33	67
2/ 31		.1		.2														3	3	21	93
1/ 29				.1														1	1	5	77
2/ 27			.1															1	1	3	82
1/ 25																				3	60
4/ 23																				2	44
2/ 21																					49
1/ 19																					52
1/ 17																					37
1/ 15																					28
4/ 13																					24
1/ 11																					9
1/ 9																					5
4/ 7																					8
Element (X)	Σ X'		Σ X		X		Σ X		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					



## PSYCHROMETRIC SUMMARY

**MONTH**

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

21104

WILLIAMS AFB AZ

69-70,73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
79													.2	.2				4	4		
77												.1	.6	.2				8	8		
75												1.2	.2					12	12		
73										.2	.2	.7	1.2	.1				21	21		
71										.6	2.6	1.4	.7					45	45		
69								.2	.8	1.3	3.1	1.9	.2					64	64		
67							.1	.6	1.3	2.3	3.6	2.1	.5					90	90		
65					.1		.6	.9	2.6	4.2	2.6	.7						100	100		
63		.1		.1	.8	.1	.8	1.6	2.6	3.3	1.3							92	92		
61		.2		.6		.4	.7	1.6	1.6	1.2	.8							61	61	1	
59			.2	.6	.5	.8	1.5	2.1	1.9	1.6	.6							84	84	2	2
57			.1	.8	.7	.6	1.5	2.3	1.5	.8	.2							74	74	5	1
55			.2	.8	1.3	1.4	1.4	2.5	.2	.5								71	71	31	
53			.5	.6	1.2	1.6	1.2	.7	.6									54	54	55	2
51		.1	.1	.2	.8	.7	.5	.7										27	27	102	11
49		.2	.1		.4	.1	.4	.2	.2									14	14	153	10
47			.2	.7	.4			.2										13	13	154	18
45		.1	.2	.1	.1	.4												8	8	124	7
43			.1															1	1	109	30
41						.6												5	5	59	21
39						.4												3	3	32	36
37					.1													1	1	8	31
35																				4	70
33																				4	63
31																				6	90
29																				3	70
27																					99
25																					77
23																					34
21																					45
19																					40
17																					20
15																					22
13																					18
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (O.L.A.) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2

## 1

DEC  
MONTH

1200-1400  
HOURS (L.S.T.)

**USAFETAC**  
FORM  
JUL 64  
**0-26-5 (OL A)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



[illegible]



2

2 174      WILLIAMS AFB AZ      69-70,73-80      DEC  
 STATION      STATION NAME      YEARS      MONTH  
 PAGE 2      1500-1700  
                  HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 174 WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

PAGE 1

1800-2000

MOON (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
67 / 75												.2						1	1		
67 / 71										.4		.2						3	3		
67 / 69									.2		.2							2	2		
67 / 67									.2	1.4	1.0							13	13		
67 / 65							.2	1.4	1.4	2.0	.4							27	27		
67 / 63							.6	.8	1.8	1.8	.4							27	27		
67 / 61				.4	.2	.6	.8	1.8	1.6	1.6	.4							37	37		
67 / 59				.6	.2	.6	1.0	1.8	3.8	.8	.8							48	48		
67 / 57				.2	.4	.8	3.0	3.0	3.2	1.4								60	60	2	
67 / 55			.2	.8	1.8	1.2	2.4	3.2	2.2	.6								62	62		
67 / 53		.2	1.0	1.4	2.6	2.0	3.2	4.0	1.0									77	77	11	2
67 / 51			.6	.8	1.2	1.2	2.2	1.4										37	37	22	
67 / 49			1.0	1.2	1.2	1.8	2.4	1.0	.2									44	44	42	4
67 / 47		.6	.2	.2	.6	1.6	2.4	1.0										33	33	76	7
67 / 45			.2		.8	.4	.2	.2										9	9	75	7
67 / 43			.2	.2	.4		.6											7	7	71	11
67 / 41						.2	.2											2	2	72	26
67 / 39						.2													1	55	21
67 / 37					.8													4	4	33	24
67 / 35					.6													3	3	20	30
67 / 33																				7	23
67 / 31					.2													1	1	3	50
67 / 29																				5	39
67 / 27																				3	39
67 / 25																				1	41
67 / 23																					31
67 / 21																					25
67 / 19																					36
67 / 17																					26
67 / 15																					15
67 / 13																					10
67 / 11																					9
67 / 9																					11
67 / 7																					4
Element (X)	Σ <sub>g</sub>		Σ <sub>h</sub>		Σ <sub>i</sub>		Σ <sub>s</sub>		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

69-70, 73-80

DEC

PAGE 2      1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
5																					5	
3																					1	
-1																					1	
TAL		.8	3.4	5.8	11.0	10.6	19.3	19.7	15.7	10.0	3.2	.4							498		498	
																		498		498		



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
4/ 63								.5	.9									3	3						
5/ 61									.5									1	1						
6/ 59								.5										1	1						
7/ 57						1.8			.5									5	5						
8/ 55						.9		1.4	1.4									8	8						
9/ 53			.5	2.7		1.8	1.8	.9	1.4	.5								21	21						
10/ 51		.5	.9	2.7	.9	5.9	1.4	1.8	.5									32	32						
11/ 49			.9	2.7	2.7	3.2	4.1	1.8										34	34	4					
12/ 47		1.4	1.8	2.7	2.7	3.6	3.6	1.4										38	38	15	2				
13/ 45		.5	.9	2.7	2.3	1.8	3.6	.9										28	28	20	1				
14/ 43				2.3	1.4	1.8	2.7											18	18	18	6				
15/ 41			1.8	1.8	.9	2.7	1.4											19	19	35	9				
16/ 39				.9		2.3												7	7	27	14				
17/ 37				.5														1	1	35	7				
18/ 35					.9													2	2	25	9				
19/ 33																			2	19	16				
20/ 31					.5													1	1	14	16				
21/ 29			.9															2	2	4	20				
22/ 27																				2	18				
23/ 25																				3	13				
24/ 23																					7				
25/ 21																					3				
26/ 19																					10				
27/ 17																					19				
28/ 15																					15				
29/ 13																					15				
30/ 11																					5				
31/ 9																					8				
32/ 7																					3				
33/ 5																					4				
34/ 3																					1				
TOTAL		2.3	7.7	19.0	12.2	25.8	18.6	9.0	5.0	.5								221	221		221				
																		221		221					
Element (X)	2x'		2x		x		x'		No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.	511242		9928		44.9		17.221		221		≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total		
Dry Bulb	517390		10628		48.1		5.348		221				1.3										93		
Wet Bulb	344513		8651		39.2		5.160		221				9.7										93		
Dew Point	173047		5743		26.0		10.403		221				66.1										93		

FORM 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

21104

WILLIAMS AFB AZ

69-70,73-80

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point				
7 / 81														.0		.0	.0				3	3		
1 / 79														.1	.2	.1					17	17		
7 / 77														.1	.2	.2					22	22		
6 / 75												.0	.4	.4	.1						42	42		
4 / 73										.1	.3	.7	.4	.1							68	68		
1 / 71										.4	1.1	1.1	.3								118	118		
1 / 69									.1	.4	.8	1.0	.8	.1							134	134		
1 / 67							.0	.3	.6	1.2	1.7	.8	.2								197	197		
6 / 65				.1		.2	.5	1.2	1.6	1.0	.5										207	207		
4 / 63		.0	.0	.1	.3	.1	.3	.6	1.6	1.3	.8	.1									209	209		
7 / 61		.1	.7	.3	.1	.2	.4	1.1	1.7	1.0	.4										213	213	1	
1 / 59		.0	.1	.3	.3	.6	1.0	1.4	1.8	.7	.5										275	275	6	3
5 / 57			.1	.5	.4	.7	1.3	1.6	1.3	.6	.1										273	273	15	3
5-6 / 55		.1	.3	.5	.9	1.0	1.8	1.6	.9	.2											296	296	72	1
4 / 53		.2	.5	.5	.9	1.1	1.4	1.3	.5	.0											264	264	168	9
2 / 51		.2	.4	.5	.9	1.2	1.2	.8	.1	.1											210	210	285	28
5-7 / 49		.4	.6	.8	1.5	1.4	1.3	.6	.1												268	268	355	42
4-6 / 47		.4	.4	1.0	1.2	.9	1.1	.4	.0												221	221	469	54
4-7 / 45	.0	.5	.5	.8	1.3	.9	.8	.1													201	201	445	62
1-4 / 43		.2	.5	1.0	1.0	.8	.7														172	172	457	92
2 / 41		.1	.6	1.2	.7	1.0	.4														170	170	371	114
4-7 / 39		.1	.8	.8	.7	.9	.1														139	139	322	146
3-6 / 37		.3	.7	.6	.5	.1															97	97	268	140
7-8 / 35	.1	.3	.8	.6	.7	.1															105	105	229	269
3-4 / 33		.2	.7	.2	.3	.1															62	62	189	245
2 / 31		.1	.3	.1	.1																27	27	179	384
3-7 / 29		.1	.0	.2	.0																16	16	110	350
2-3 / 27			.0	.1																	4	4	46	399
6 / 25		.0	.1																		5	5	25	348
2-4 / 23			.0																		1	1	16	198
2 / 21																							8	229
1 / 19																								237
1-3 / 17																								172
1-6 / 15																								131
Element (X)	$\Sigma H^1$		$\Sigma H$		$\Sigma$		$\Sigma$		$\Sigma$		No. Obs.		Mean No. of Hours with Temperature											
Rel. Hum.													$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total					
Dry Bulb																								
Wet Bulb																								
Dew Point																								

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

2 134

WILLIAMS AFB AZ

69-70, 73-80

DEC

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

2104 WILLIAMS AFB AZ

69-70, 73-81

YEARS

ALL

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point
11- / 117																	.0	1	1	
11- / 115																	.0	4	4	
11- / 113																	.0	1	1	
12 / 111																	.1	30	30	
11 / 109																	.2	99	99	
11 / 107																.0	.4	200	200	
11 / 105																.0	.8	448	448	
11 / 103															.0	.2	1.1	750	750	
12 / 101													.0	.1	.2	.5	1.3	1129	1129	
10 / 99													.1	.2	.6	.5	1.3	1435	1435	
8 / 97												.0	.2	.5	.6	.5	1.3	1689	1689	
8 / 95									.0	.0	.2	.4	.6	.6	.5	.4	1.2	1820	1820	
4 / 93									.0	.1	.4	.5	.6	.5	.5	.5	1.1	2013	2013	
4 / 91									.0	.1	.3	.4	.5	.4	.4	.5	.8	1938	1938	
7 / 89								.0	.0	.2	.4	.4	.3	.4	.5	.5	.7	1995	1995	
8 / 87							.0	.0	.1	.3	.3	.4	.3	.6	.5	.7	.2	1918	1918	
6 / 85						.0	.0	.1	.3	.3	.3	.3	.4	.5	.5	.7	.0	1938	1938	
4 / 83						.0	.1	.2	.2	.2	.3	.3	.4	.5	.7	.2		1752	1752	
2 / 81				.0	.0	.1	.2	.2	.3	.2	.2	.4	.5	.7	.6	.1		1854	1854	
7 / 79				.0	.0	.1	.2	.2	.2	.2	.4	.5	.7	.7	.3			1942	1942	
7- / 77				.0	.1	.1	.1	.2	.2	.2	.4	.5	.7	.6	.1			1696	1696	15
6 / 75				.1	.1	.1	.1	.2	.2	.3	.4	.7	.7	.3	.0			1718	1719	233
24 / 73			.0	.1	.0	.1	.1	.2	.3	.4	.6	.8	.9	.1				1759	1759	1104
22 / 71		.0	.0	.0	.0	.1	.1	.2	.4	.6	.9	.7	.3	.0				1802	1802	2537
7- / 69		.0	.0	.0	.1	.1	.1	.3	.5	.6	.9	.6	.2					1874	1874	2939
68 / 67		.0	.0	.0	.1	.1	.2	.4	.7	.8	.7	.4	.0					1960	1960	2977
66 / 65			.0	.1	.1	.1	.3	.6	.7	.9	.5	.2						1990	1990	2658
64 / 63		.0	.0	.1	.1	.2	.5	.6	.7	.8	.7	.3	.0					1785	1785	2559
22 / 61		.0	.1	.1	.2	.4	.6	.7	.8	.5	.2	.0						1905	1905	2766
20 / 59		.0	.1	.2	.4	.6	.7	.8	.7	.3	.1							2093	2093	2745
57 / 57	.0	.0	.1	.3	.3	.6	.6	.7	.9	.2	.0							1857	1857	3025
56 / 55		.1	.2	.3	.6	.5	.7	.6	.3	.1								1862	1862	3158
54 / 53	.0	.1	.1	.5	.5	.6	.5	.4	.2	.0								1681	1681	3468
52 / 51	.0	.1	.4	.4	.4	.5	.4	.3	.1	.0								1424	1424	3961
Element (X)	Σ x <sup>2</sup>		Σ x		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature					Total		
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		
Dry Bulb																				
Wet Bulb																				
Dew Point																				



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

2 174 WILLIAMS AFB AZ  
STATION STATION NAME

69-70, 73-81  
YEARS

ALL  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point				
5 / 49	.0	.2	.5	.4	.5	.4	.4	.2	.0									1407	1407	3794	1703			
4 / 47	.0	.2	.4	.4	.4	.4	.3	.1	.0									1221	1222	3661	1873			
4 / 45	.0	.3	.3	.4	.4	.3	.2	.0										1030	1030	3229	2398			
4 / 43	.0	.2	.3	.3	.2	.2	.2	.0										725	726	2628	2676			
42 / 41	.0	.1	.2	.3	.2	.2	.1	.0										637	637	1993	2856			
4 / 39	.0	.1	.3	.2	.2	.2	.0											534	534	1632	3332			
3 / 37	.0	.1	.2	.2	.1	.1												352	352	1197	3153			
3 / 35	.0	.1	.1	.2	.1	.0												283	283	889	3442			
3 / 33	.0	.1	.1	.1	.0	.0												169	169	653	3107			
2 / 31	.0	.0	.1	.0	.0													86	86	517	4025			
2 / 29	.0	.0	.0	.0	.0													55	55	285	2977			
2 / 27	.0	.0	.0	.0														28	28	150	2729			
2 / 25	.0	.0	.0	.0														20	20	72	2399			
2 / 23	.0	.0																7	7	45	1628			
2 / 21																				22	1569			
2 / 19																				4	1360			
2 / 17																					843			
1 / 15																					653			
1 / 13																					563			
1 / 11																					367			
1 / 9																					232			
1 / 7																					120			
1 / 5																					75			
1 / 3																					46			
1 / 1																					21			
1 / -1																					13			
- / -3																					3			
-4 / -5																					2			
TOTAL	.1	1.8	3.9	4.6	5.3	6.0	6.4	7.1	7.5	7.3	7.6	7.2	6.8	6.8	6.1	5.2	10.5	54916	54916	54916	54916			
Element (X)	Σ X <sup>1</sup>		Σ X <sup>2</sup>		Σ X		Σ X <sup>2</sup>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.	77939171		18011119		32.818.535		54916		Σ 0 F		Σ 32 F		Σ 67 F		Σ 73 F		Σ 80 F		Σ 93 F		Total			
Dry Bulb	311322006		4015996		73.117.927		54919				33.15297.4		393.2		3431.0		1488.8				8760			
Wet Bulb	169841121		2995875		54.61.800		54916				186.01521.3		208.6								8760			
Dew Point	89225702		2098882		38.212.807		54916				3.13182.9		35.6								8760			



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
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USE WITH CAUTION  
SEE FIRST PAGE

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

2-104 WILLIAMS AFB AZ

69-70,73-81

STATION		STATION NAME												YEARS	
HRS. (LST.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
3-05	MEAN	42.7	46.0	47.8	52.3	61.0	70.4	79.7	77.8	72.1	59.7	48.9	42.4	58.9	
	S.D.	7.125	6.370	5.768	7.197	6.050	6.188	4.964	4.923	5.834	7.900	6.269	5.986	14.535	
	TOTAL OBS	235	220	247	242	241	238	245	247	225	235	218	184	2777	
0-09	MEAN	41.6	45.2	48.1	55.5	66.4	76.7	82.8	80.3	74.0	60.8	48.8	41.6	60.5	
	S.D.	7.467	6.671	6.174	8.456	7.736	7.439	5.094	5.186	6.619	8.713	6.703	6.292	16.352	
	TOTAL OBS	761	713	802	781	783	773	784	798	734	769	730	693	9121	
6-11	MEAN	50.2	55.6	59.1	69.0	78.9	89.7	91.6	90.5	85.5	74.3	61.7	52.2	71.8	
	S.D.	7.023	6.708	7.295	8.867	7.385	6.509	4.859	4.482	6.024	8.950	7.970	7.210	16.545	
	TOTAL OBS	900	820	930	900	907	899	904	929	874	903	857	851	10674	
12-14	MEAN	59.2	64.7	65.9	76.0	85.3	96.2	97.6	96.8	92.0	81.9	70.5	62.0	79.2	
	S.D.	6.399	6.804	8.421	9.160	7.645	6.664	4.680	4.329	5.733	8.876	8.073	7.196	15.621	
	TOTAL OBS	900	822	930	900	907	900	906	930	876	903	859	852	10685	
15-17	MEAN	61.9	67.5	68.0	78.3	87.7	98.9	100.3	99.6	94.1	83.5	72.4	64.7	81.7	
	S.D.	6.568	7.157	8.964	9.547	7.802	6.562	5.094	4.380	5.750	9.026	8.393	7.417	15.764	
	TOTAL OBS	822	758	854	831	834	829	841	860	799	820	785	737	9770	
18-20	MEAN	55.5	62.1	63.8	73.8	83.7	95.2	97.3	96.4	89.1	76.3	63.6	55.7	77.0	
	S.D.	6.161	6.940	8.542	9.577	7.901	6.772	6.021	5.124	6.571	9.075	7.617	6.360	16.843	
	TOTAL OBS	653	617	712	706	716	698	718	721	652	680	619	498	7990	
1-23	MEAN	48.4	53.2	55.9	64.4	75.2	86.6	91.2	89.7	82.0	67.2	55.4	48.1	70.4	
	S.D.	6.176	5.344	6.595	8.281	6.656	6.007	5.242	4.576	5.865	8.174	5.827	5.345	16.742	
	TOTAL OBS	281	273	342	346	387	401	405	378	309	312	247	221	3902	
ALL HOURS	MEAN	52.9	58.1	60.1	69.3	79.1	90.0	93.0	91.8	86.0	74.2	62.5	54.5	73.1	
	S.D.	9.899	10.497	10.638	12.435	11.147	10.915	8.308	8.540	9.578	12.213	11.536	10.801	17.927	
	TOTAL OBS	4552	4223	4817	4706	4775	4738	4803	4863	4469	4622	4315	4036	54919	



2  
GLOBAL CLIMATOLOGY BRANCH  
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AFR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

2 104 WILLIAMS AFB AZ

69-70,73-81

STATION		STATION NAME								YEARS					
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
3-05	MEAN	38.1	39.8	41.0	42.2	47.6	52.5	64.5	63.3	58.1	47.9	40.0	35.6	47.9	
	S.D.	6.962	6.497	5.366	4.976	5.249	5.374	5.154	5.707	5.876	7.179	5.861	5.460	11.179	
	TOTAL OBS	234	220	247	242	241	238	245	247	225	235	218	184	2776	
6-09	MEAN	37.2	39.3	41.4	44.3	50.7	55.9	65.8	64.7	59.3	48.7	40.0	35.2	48.8	
	S.D.	7.147	6.608	5.582	5.498	5.520	5.346	4.693	5.319	5.906	7.478	6.154	5.880	11.877	
	TOTAL OBS	761	713	802	781	783	773	784	798	734	769	730	693	9121	
-11	MEAN	42.8	45.6	47.6	50.9	56.4	61.5	68.6	68.5	64.4	55.9	47.7	42.1	54.5	
	S.D.	6.011	5.369	4.651	4.671	4.266	4.072	3.325	3.811	4.403	6.237	5.322	5.297	10.420	
	TOTAL OBS	900	820	929	900	907	899	904	929	874	903	857	851	10673	
12-14	MEAN	47.2	49.5	50.2	53.4	58.6	64.0	70.2	69.9	66.4	58.8	51.8	47.2	57.4	
	S.D.	5.001	4.593	4.645	4.601	4.037	3.699	2.952	3.480	3.913	5.516	4.670	4.596	9.334	
	TOTAL OBS	900	822	930	900	907	900	906	930	876	903	859	852	17685	
15-17	MEAN	48.3	50.4	50.5	54.0	59.2	65.0	70.6	70.1	66.5	59.0	52.4	48.1	58.0	
	S.D.	4.657	4.294	4.599	4.597	3.865	3.500	2.644	3.417	3.843	5.249	4.678	4.641	9.108	
	TOTAL OBS	822	758	854	830	834	829	841	860	799	820	785	737	9769	
18-21	MEAN	45.5	48.3	48.9	52.2	57.7	63.5	69.6	68.8	64.8	56.0	48.4	43.6	56.1	
	S.D.	5.086	4.742	4.608	4.693	3.835	3.598	2.594	3.591	4.289	5.925	5.301	5.030	9.817	
	TOTAL OBS	653	617	712	706	716	698	718	721	652	680	619	498	7990	
21-23	MEAN	41.2	43.8	45.1	48.3	54.2	59.6	67.8	66.7	62.4	51.5	44.0	39.1	53.3	
	S.D.	5.499	5.028	4.861	4.551	4.028	3.943	3.216	4.089	5.048	6.449	5.449	5.166	10.700	
	TOTAL OBS	281	273	342	346	387	401	405	378	309	312	247	221	3902	
	MEAN														
	S.D.														
	TOTAL OBS														
ALL HOURS	MEAN	43.8	46.1	47.3	50.4	55.9	61.4	68.7	68.1	63.9	55.1	47.6	42.8	54.6	
	S.D.	6.960	6.642	5.970	6.116	5.556	5.527	3.899	4.619	5.404	7.355	7.001	6.972	10.800	
	TOTAL OBS	4551	4223	4816	4705	4775	4738	4303	4863	4469	4622	4315	4036	54916	



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

2 104

WILLIAMS AFB AZ

69-70, 73-81

STATION		STATION NAME										YEARS			
HRS (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
3-05	MEAN	31.5	31.0	31.8	29.4	32.1	34.3	54.4	53.4	46.7	34.8	27.3	24.6	36.3	
	S.D.	9.778	10.876	10.018	7.590	9.973	10.095	9.648	9.422	9.912	11.333	10.878	9.942	13.805	
	TOTAL OBS	234	220	247	242	241	238	245	247	225	235	218	184	2776	
6-09	MEAN	30.8	30.9	32.6	31.1	34.4	37.0	55.1	54.5	47.9	35.7	27.6	24.9	37.1	
	S.D.	9.733	10.639	9.581	7.589	9.590	9.516	9.168	8.881	9.600	11.296	10.744	10.027	13.738	
	TOTAL OBS	761	713	802	781	783	773	784	798	734	769	730	693	9121	
9-11	MEAN	33.7	33.7	34.8	31.8	35.7	39.3	55.2	55.6	50.3	39.4	31.8	28.9	39.3	
	S.D.	9.417	10.409	9.408	7.586	8.631	8.120	7.802	8.021	9.008	10.638	9.962	9.293	12.737	
	TOTAL OBS	900	820	929	900	907	899	904	929	874	903	857	851	10673	
12-14	MEAN	33.5	32.7	33.4	30.8	35.4	40.1	54.6	54.5	49.8	39.4	32.3	29.6	38.9	
	S.D.	10.156	10.625	9.574	7.338	7.986	6.891	7.212	8.068	8.764	10.356	9.513	9.375	12.493	
	TOTAL OBS	900	822	930	900	907	900	906	930	876	903	859	852	10685	
15-17	MEAN	32.9	31.8	31.8	29.6	34.6	40.2	53.6	52.9	48.5	38.3	31.8	29.1	38.1	
	S.D.	10.004	10.574	9.351	7.016	7.544	5.991	6.897	8.150	8.733	9.937	9.541	9.288	12.222	
	TOTAL OBS	622	758	854	830	834	829	841	860	799	820	785	737	9769	
18-20	MEAN	33.5	32.6	32.4	29.8	34.3	39.7	53.5	52.3	48.3	37.7	31.1	28.1	36.2	
	S.D.	9.490	10.485	9.395	7.245	8.087	6.626	6.762	7.977	8.980	10.166	10.178	9.725	12.235	
	TOTAL OBS	653	617	712	706	716	698	718	721	652	680	619	498	7990	
1-23	MEAN	31.8	31.7	31.8	30.3	33.7	37.2	53.8	52.3	48.1	35.3	29.4	26.0	37.8	
	S.D.	8.935	10.545	10.414	8.011	8.343	7.447	7.493	8.480	10.301	10.842	11.409	10.403	13.014	
	TOTAL OBS	281	273	342	346	387	401	405	378	309	312	247	221	3902	
ALL HOURS	MEAN	32.8	32.2	32.9	30.6	34.7	38.9	54.4	53.9	48.9	37.8	30.7	27.9	38.2	
	S.D.	9.781	10.599	9.620	7.465	8.508	7.831	7.748	8.388	9.203	10.676	10.261	9.752	12.807	
	TOTAL OBS	4551	4223	4816	4705	4775	4738	4803	4863	4469	4622	4315	4036	54916	



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ALC WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## RELATIVE HUMIDITY

23104  
STATION

WILLIAMS AFB AZ

STATION NAME

70,73-81

PERIOD

JAN

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02											
	03-05	100.0	100.0	99.1	92.7	80.8	61.1	46.6	23.9	6.0	66.5	234
	06-08	100.0	100.0	98.7	93.2	83.6	65.3	47.0	21.4	7.0	67.2	761
	09-11	100.0	99.0	91.3	77.6	67.2	40.8	23.2	8.6	2.0	56.1	900
	12-14	100.0	90.3	67.6	47.6	27.4	14.6	5.1	1.6	.4	41.2	900
	15-17	99.8	84.1	57.4	37.2	18.6	9.9	4.0	1.7	.6	37.0	822
	18-20	100.0	97.5	79.3	58.3	39.2	22.7	11.2	3.4	.6	46.5	653
	21-23	100.0	98.2	93.6	77.6	56.6	36.7	22.4	5.7	1.8	55.0	281
TOTALS		100.0	95.6	81.9	69.2	52.3	35.9	22.8	9.5	2.6	52.8	4551

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
CMFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

USE WITH CAUTION  
SEE FIRST PAGE

20104 WILLIAMS AFB AZ

75,73-81

FFB

STATION

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	0-02											
	03-05	100.0	97.3	92.7	80.0	65.0	45.5	30.5	15.5	1.4	53.8	220
	06-08	100.0	98.7	93.4	83.0	68.4	50.1	31.7	15.4	2.1	60.1	713
	09-11	99.8	93.2	78.2	58.7	41.8	25.6	15.0	4.8	1.2	47.4	620
	12-14	98.1	77.4	49.9	29.9	15.7	8.5	3.6	1.6	.5	34.0	322
	15-17	97.6	64.2	40.9	22.2	12.9	6.2	2.5	.9	.4	30.1	758
	18-20	99.4	80.9	54.9	35.2	22.0	13.8	6.0	1.3	.3	36.9	617
	21-23	100.0	94.5	77.7	58.6	40.3	27.1	14.7	6.2		47.5	273
TOTALS		99.3	86.6	69.7	52.5	38.0	25.3	14.9	6.5	.8	45.0	4223

**USAFETAC**

FORM  
JUL 64

0-87-5 (OL A)



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

# RELATIVE HUMIDITY

2014 WILLIAMS AFB AZ

70,73-81

MAR

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02											
	03-05	100.0	98.8	89.1	76.1	58.3	46.6	29.6	13.4	3.2	57.3	247
	06-08	100.0	99.8	90.4	79.4	60.7	46.9	30.0	14.1	2.6	56.1	802
	09-11	100.0	89.3	71.8	53.6	35.7	21.2	11.7	3.2	.1	44.2	929
	12-14	99.4	74.2	49.0	29.0	15.2	8.9	3.7	1.3	.3	33.5	930
	15-17	99.1	63.1	38.3	20.8	11.5	6.3	3.4	1.6	.4	29.7	854
	18-20	100.0	75.3	48.6	29.9	18.3	11.8	7.2	3.5	.3	35.0	712
	21-23	100.0	87.1	69.0	50.0	33.9	24.3	15.5	5.6	.3	44.2	342
TOTALS		99.8	83.9	65.2	48.4	33.4	23.7	14.4	6.1	1.0	43.1	4616

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)



USE WITH CAUTION  
SEE FIRST PAGE

23104  
STATION

WILLIAMS AFB AZ

70,73-81

APR

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02											
	03-05	100.0	97.9	82.2	49.6	25.2	15.3	8.3	4.5	.8	44.0	242
	06-08	100.0	97.1	73.9	43.9	22.7	14.3	9.1	3.2	.5	42.1	781
	09-11	99.9	66.4	28.7	13.8	7.9	3.9	1.3	.2		27.6	900
	12-14	99.0	36.7	11.9	6.7	2.9	.9	.3	.1		20.8	900
	15-17	98.6	23.5	8.9	4.7	3.0	1.6	.5	.1		18.5	830
	18-20	100.0	36.5	14.0	8.4	4.2	2.1	1.6	1.0		21.8	706
	21-23	100.0	75.7	33.2	18.8	11.3	6.4	3.5	1.7		30.7	346
TOTALS		99.6	62.0	36.1	20.8	11.0	6.4	3.5	1.5	.2	29.4	4705



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## RELATIVE HUMIDITY

23104  
STATION

WILLIAMS AFB AZ

70,73-81

MAY

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02											
	03-05	100.0	92.1	54.4	27.4	14.9	10.4	6.2	3.7		36.4	241
	06-08	100.0	85.6	42.9	21.5	12.9	7.9	5.0	1.5		33.2	783
	09-11	99.3	45.8	16.9	8.5	4.5	1.5	.6			22.9	907
	12-14	96.3	27.2	8.7	3.3	.9	.3				18.1	907
	15-17	92.9	19.9	5.8	1.9	1.3	.8	.5			16.3	834
	18-20	95.8	25.4	10.5	5.2	2.9	2.0	1.3	.1		18.8	716
	21-23	99.7	52.5	17.8	7.2	4.4	2.1	1.3	.3		23.8	387
TOTALS		97.7	49.8	22.4	10.7	6.0	3.6	2.1	.8		24.2	4775

**USAFETAC**

FORM  
JUL 64

0-87-5 (OL A)



FEDERAL CLIMATOLOGY BRANCH  
TAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

**RELATIVE HUMIDITY**

204 WILLIAM AFB AZ

69-70, 73-80

**JUN**

STATION

STATION NAME

PERIOD

**MONTH**

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02											
	03-05	100.7	78.2	31.1	10.9	4.6	1.7	.8	.4		28.0	236
	06-08	100.0	62.9	23.0	6.7	2.6	.9	.1	.1		25.2	773
	09-11	97.0	27.4	5.7	.6	.1					17.9	899
	12-14	98.9	11.4	2.1	.9	.6	.1				14.9	900
	15-17	87.1	4.9	1.7	.6	.4	.2	.1			13.6	829
	18-20	93.0	11.7	3.2	1.0	.6					15.2	698
	21-23	98.3	24.9	2.5	1.2						17.9	401
TOTALS		95.2	31.6	9.9	3.1	1.3	.4	.1	.1		19.0	4738



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## RELATIVE HUMIDITY

23174  
STATION

WILLIAMS AFB AZ

69-70, 73-80

JUL

STATION NAME

PERIOD

**MONTH**

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02											
	03-05	100.0	96.3	82.0	55.9	26.5	13.1	5.7	.8		43.7	245
	06-08	99.9	93.8	75.1	48.6	20.4	8.3	2.6			40.6	784
	09-11	99.3	83.8	46.9	17.0	4.1	.7				30.8	904
	12-14	98.9	69.6	21.5	3.2	.4					24.8	906
	15-17	98.2	52.7	12.2	3.1	.6	.1				22.1	841
	18-20	97.8	61.1	20.9	7.0	2.9	.6				24.4	718
	21-23	99.5	82.2	38.5	15.1	5.7	2.7	.2			29.8	405
TOTALS		99.1	77.1	42.4	21.4	8.7	3.6	1.2	.1		30.9	4803

**USAFETAC**FORM  
JUL 64

0-87-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

USE WITH CAUTION  
SEE FIRST PAGE

23104 WILLIAMS AFB AZ

69-70,73-80

AUG

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02											
	03-05	100.0	99.2	86.6	60.3	22.7	8.5	3.6			43.9	247
	06-08	100.0	98.4	86.1	52.0	21.8	7.5	1.6	.1		42.4	798
	09-11	99.9	88.2	52.7	18.5	4.7	1.1	.1			32.1	929
	12-14	99.0	69.1	25.5	3.9	.8	.1				25.4	930
	15-17	97.3	54.2	12.8	1.3	.5	.1				21.9	860
	18-20	98.9	59.9	18.4	4.7	1.5	.1				23.8	721
	21-23	100.0	84.4	34.9	13.2	5.3	2.6	.8			29.4	378
TOTALS		99.3	79.1	45.3	22.0	8.2	2.9	.9	.0		31.3	4863



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

USE WITH CAUTION  
SEE FIRST PAGE

23104 WILLIAMS AFB AZ

69-70, 73-80

SFP

STATION

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02											
	03-05	100.0	99.1	81.3	48.0	20.9	10.7	4.9	1.3		42.2	225
	06-08	100.0	99.0	78.7	44.6	18.4	11.0	5.7	1.5		41.4	734
	09-11	99.5	84.1	46.0	17.0	7.4	3.8	2.1	.5		31.6	874
	12-14	98.6	63.9	23.1	6.5	3.3	1.7	.3	.1		25.2	876
	15-17	97.2	51.3	13.8	4.3	2.3	.8	.5			22.5	799
	18-20	98.9	68.1	25.6	9.4	5.1	2.0	.8			26.3	652
	21-23	99.7	86.1	46.3	22.0	12.0	6.1	1.9			32.9	309
TOTALS		99.1	78.8	45.0	21.7	9.9	5.2	2.3	.5		31.7	4469

**USAFETAC**FORM  
HL 44

0-87-5 (OL A)



GLOBAL CLIMATOLOGY BRANCH  
JAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

USE WITH CAUTION  
SEE FIRST PAGE

23164

WILLIAMS AFB AZ

69-70, 73-80

OCT

STATION

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02											
	03-05	100.0	98.7	72.8	43.4	21.3	12.8	8.5	3.4		41.6	235
	06-08	100.0	98.6	71.3	42.7	20.0	13.1	9.0	3.4	.3	41.5	769
	09-11	100.0	76.5	37.9	19.0	11.2	6.0	2.7	.7		30.9	903
	12-14	97.3	50.6	21.7	10.3	4.4	2.5	.6			24.2	903
	15-17	98.0	42.1	15.4	7.6	3.7	1.7	.9			22.0	820
	18-20	100.0	63.4	27.8	11.8	6.9	4.4	1.0	.3		27.0	680
	21-23	100.0	86.5	44.2	20.2	11.9	8.7	3.5	1.0		33.2	312
TOTALS		99.3	73.8	41.6	22.1	11.3	7.0	3.7	1.3	.0	31.5	4622



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

USE WITH CAUTION  
SEE FIRST PAGE

23104 WILLIAMS AFB AZ

69-70, 73-80

NOV

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02											
	03-05	100.0	98.2	76.6	52.3	32.1	22.5	13.8	7.8	1.8	46.2	218
	06-08	100.0	98.2	80.5	54.8	33.8	22.6	12.5	6.2	1.9	46.7	730
	09-11	99.8	82.1	49.9	30.5	18.8	11.6	7.0	2.3	.1	35.9	857
	12-14	98.6	57.0	28.9	16.6	8.0	4.9	2.3	.6		27.3	859
	15-17	98.1	48.9	25.0	13.4	6.2	3.7	2.2	.6		25.2	785
	18-20	99.2	76.3	41.7	25.4	13.6	6.3	3.1	.5		32.3	619
	21-23	100.0	91.5	63.2	40.9	25.5	14.2	6.9	1.6		40.0	247
TOTALS		99.4	78.9	52.3	33.4	19.7	12.3	6.8	2.8	.5	36.2	4315



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION **RELATIVE HUMIDITY**  
SEE FIRST PAGE

23104  
STATION

WILLIAMS AFB AZ  
STATION NAME

69-70,73-80  
PERIOD

DEC  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02											
	03-05	100.0	98.4	85.9	66.8	52.2	33.7	17.9	7.1	2.2	52.3	184
	06-08	100.0	98.8	89.8	72.9	55.4	37.8	20.6	9.8	1.7	54.4	693
	09-11	100.0	95.1	73.1	49.1	31.4	20.0	11.3	4.6	.4	44.1	851
	12-14	99.9	77.5	42.4	23.0	14.3	8.1	3.5	1.2	.2	32.4	852
	15-17	99.9	66.4	29.6	17.4	9.6	4.5	2.0	.7		28.8	737
	18-20	100.0	91.8	59.4	31.9	17.7	10.8	5.0	1.4		37.3	498
	21-23	100.0	97.7	72.9	55.7	34.8	20.8	7.7	3.6		44.9	221
TOTALS		100.0	89.4	64.7	45.3	30.8	19.4	9.7	4.1	.6	42.0	4036



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

27104 WILLIAMS AFB AZ

69-70,73-81

ALL

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	95.6	83.9	69.2	52.3	35.9	22.8	9.5	2.6	52.8	4551
FEB		99.3	86.6	69.7	52.5	38.0	25.3	14.9	6.5	.8	45.0	4223
MAR		99.8	83.9	65.2	48.4	33.4	23.7	14.4	6.1	1.0	43.1	4816
APR		99.6	62.0	36.1	20.8	11.0	6.4	3.5	1.5	.2	29.4	4705
MAY		97.7	49.8	22.4	10.7	6.0	3.6	2.1	.8		24.2	4775
JUN		95.2	31.6	9.9	3.1	1.3	.4	.1	.1		19.0	4738
JUL		99.1	77.1	42.4	21.4	8.7	3.6	1.2	.1		30.9	4803
AUG		99.3	79.1	45.3	22.0	8.2	2.9	.9			31.3	4863
SEP		99.1	78.8	45.0	21.7	9.9	5.2	2.3	.5		31.7	4469
OCT		99.3	73.8	41.6	22.1	11.3	7.0	3.7	1.3		31.5	4622
NOV		99.4	78.9	52.3	33.4	19.7	12.3	6.8	2.8	.5	36.2	4315
DEC		100.0	89.4	64.7	45.3	30.8	19.4	9.7	4.1	.6	42.0	4036
TOTALS		99.0	73.9	48.2	30.9	19.2	12.1	6.9	2.8	.5	34.8	54916

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

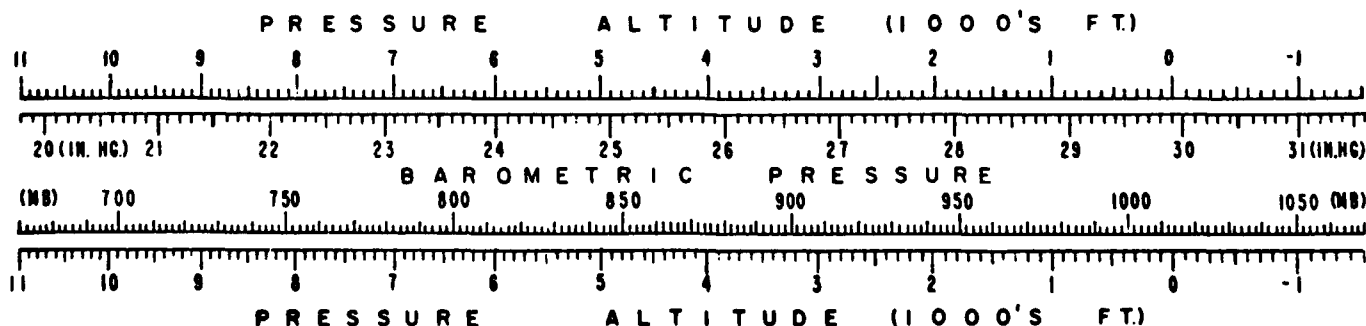
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

USE WITH CAUTION  
SEE FIRST PAGE

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

2104

WILLIAMS AFB AZ

69-70, 73-81

STATION		STATION NAME										YEARS			
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
	MEAN														
	S.D.														
	TOTAL OBS														
	MEAN	28.568	28.548	28.451	28.428	28.382	28.361	28.403	28.393	28.404	28.470	28.553	28.575	28.458	
	S.D.	.125	.116	.118	.098	.083	.067	.062	.063	.076	.099	.122	.125	.123	
	TOTAL OBS	235	220	247	242	241	238	245	247	225	235	218	184	2777	
	MEAN	28.599	28.586	28.500	28.471	28.423	28.404	28.446	28.436	28.442	28.502	28.578	28.608	28.498	
	S.D.	.120	.120	.117	.098	.087	.070	.063	.065	.076	.099	.121	.122	.122	
	TOTAL OBS	281	262	296	288	290	282	286	292	273	286	271	265	3372	
1	MEAN	28.631	28.611	28.513	28.476	28.418	28.398	28.441	28.436	28.444	28.508	28.592	28.628	28.506	
	S.D.	.119	.118	.117	.099	.086	.071	.064	.064	.075	.097	.121	.121	.128	
	TOTAL OBS	300	274	310	300	303	300	301	310	292	301	286	284	3561	
14	MEAN	28.553	28.542	28.456	28.421	28.366	28.348	28.381	28.376	28.381	28.438	28.518	28.551	28.443	
	S.D.	.115	.114	.114	.099	.085	.073	.062	.061	.073	.094	.119	.117	.121	
	TOTAL OBS	300	274	310	300	303	300	302	310	292	301	287	284	3563	
17	MEAN	28.535	28.507	28.415	28.374	28.315	28.292	28.323	28.318	28.339	28.415	28.503	28.537	28.402	
	S.D.	.115	.112	.116	.097	.087	.075	.059	.061	.075	.098	.118	.121	.130	
	TOTAL OBS	238	226	252	248	244	242	250	251	228	236	226	190	2831	
20	MEAN	28.568	28.537	28.435	28.389	28.327	28.294	28.334	28.332	28.361	28.436	28.521	28.566	28.413	
	S.D.	.116	.112	.120	.098	.085	.073	.064	.063	.076	.098	.114	.130	.133	
	TOTAL OBS	179	176	217	220	230	221	228	223	206	212	178	137	2427	
23	MEAN														
	S.D.														
	TOTAL OBS														
ALL HOURS	MEAN	28.578	28.558	28.465	28.430	28.375	28.353	28.391	28.386	28.399	28.464	28.546	28.581	28.457	
	S.D.	.123	.120	.122	.105	.095	.084	.078	.077	.085	.104	.124	.126	.132	
	TOTAL OBS	1533	1432	1632	1598	1611	1583	1612	1633	1516	1571	1466	1344	18531	



2  
GLOBAL CLIMATOLOGY BRANCH  
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USE WITH CAUTION  
SEE FIRST PAGE

## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

2104

WILLIAMS AFB AZ

69-70, 73-81

STATION		STATION NAME										YEARS		
HRS. (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
	MEAN S.D. TOTAL OBS													
	MEAN S.D. TOTAL OBS	1017.1 4.566 235	1016.1 4.248 220	1012.6 4.271 247	1011.4 3.632 242	1009.3 3.115 241	1008.1 2.441 238	1009.4 2.288 245	1009.0 2.336 247	1009.6 2.847 225	1012.5 3.744 235	1016.0 4.507 218	1017.2 4.684 183	1012.2 4.849 2776
	MEAN S.D. TOTAL OBS	1018.4 4.449 281	1017.6 4.407 262	1014.4 4.224 295	1012.9 3.630 288	1010.7 3.171 290	1009.5 2.516 282	1010.8 2.303 286	1010.5 2.423 292	1011.0 2.807 273	1013.7 3.810 286	1017.1 4.470 271	1018.7 4.456 264	1013.7 4.856 3370
1	MEAN S.D. TOTAL OBS	1019.4 4.368 300	1018.4 4.281 274	1014.9 4.174 310	1013.1 3.659 300	1010.5 3.159 303	1009.3 2.586 300	1010.7 2.328 302	1010.5 2.299 310	1011.1 2.768 292	1013.8 3.710 301	1017.5 4.402 286	1019.2 4.400 284	1014.0 5.069 3562
14	MEAN S.D. TOTAL OBS	1016.6 4.194 300	1015.9 4.151 274	1012.8 4.125 310	1011.1 3.680 300	1008.6 3.156 303	1007.5 2.659 300	1008.6 2.301 302	1008.4 2.270 310	1008.8 2.723 292	1011.5 3.475 301	1014.8 4.328 287	1016.5 4.266 284	1011.7 4.810 3563
17	MEAN S.D. TOTAL OBS	1016.0 4.112 238	1014.6 4.096 226	1011.3 4.207 252	1009.4 3.620 248	1006.9 3.222 244	1005.6 2.711 242	1006.5 2.239 249	1006.4 2.255 251	1007.4 2.757 228	1010.6 3.647 236	1014.3 4.308 226	1015.9 4.405 190	1010.2 5.136 2630
0	MEAN S.D. TOTAL OBS	1017.4 4.175 179	1015.9 4.088 176	1012.1 4.332 216	1010.0 3.694 219	1007.3 3.184 229	1005.6 2.668 221	1006.8 2.429 228	1006.8 2.338 223	1008.1 2.831 206	1011.5 3.652 212	1015.1 4.173 178	1017.3 4.672 137	1010.7 5.352 2424
23	MEAN S.D. TOTAL OBS													
ALL HOURS	MEAN S.D. TOTAL OBS	1017.6 4.475 1533	1016.5 4.402 1432	1013.1 4.399 1630	1011.4 3.885 1597	1009.0 3.476 1610	1007.7 3.025 1583	1008.9 2.857 1612	1008.8 2.821 1633	1009.5 3.109 1516	1012.4 3.864 1571	1015.9 4.529 1466	1017.6 4.612 1342	1012.2 5.190 18525



DATE  
ILME  
— 8